

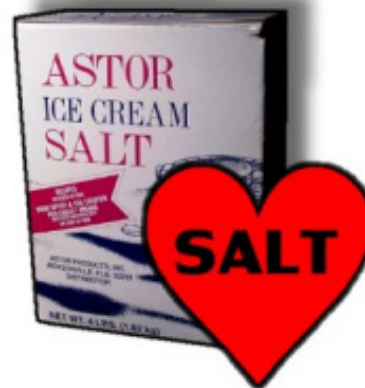


Fish Health & Salt For Retailers

- Keeping fish alive better
- The most important medicine
- Miscellaneous Tips



The Stupid, It Burns



**Just Say No To Coma
If You Fall Asleep
We Will Write On You**



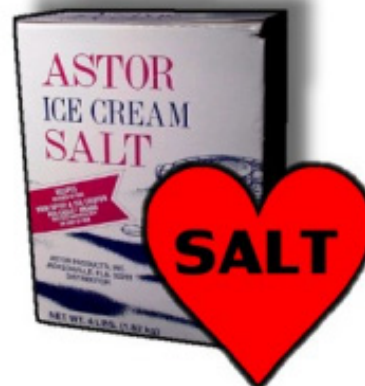


Who's This Guy?

- Vet from Marietta
- Fish Specialty
- Fish Surgeon
- Fish Hobbyist



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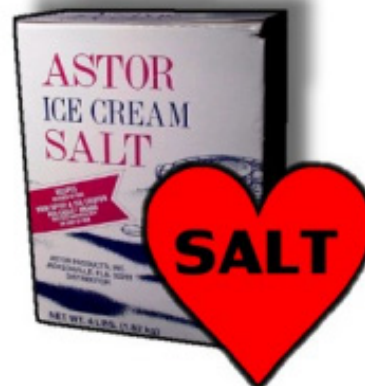


Health For Retailers

- Buy Healthy Fish
- Give Them Great Water
- Intercept Disease Early
- Feed Well



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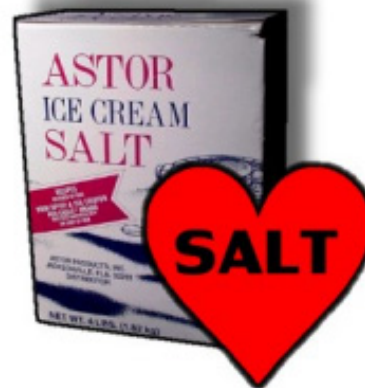


The Duds

- Sure, they happen
- Airport Delays
- Crappy Fish to Begin With
- Bag Burn
- Mishandling



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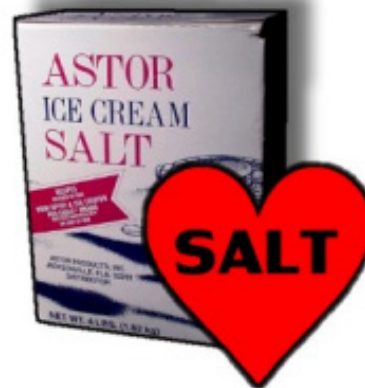


The Waterquality

- Needs to be measured
- And recorded
- Drip Systems Help
- Water Quality Per Fish



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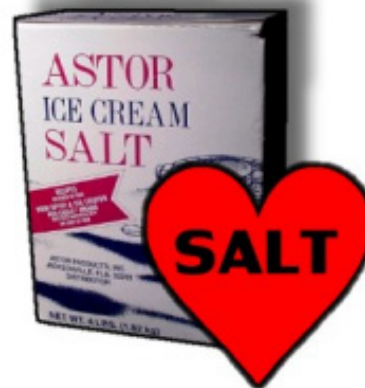


Driplines

- New Water All The Time
- Dilutes Toxins & Meds
- Automates WC Process
- Reduces WC Mistakes



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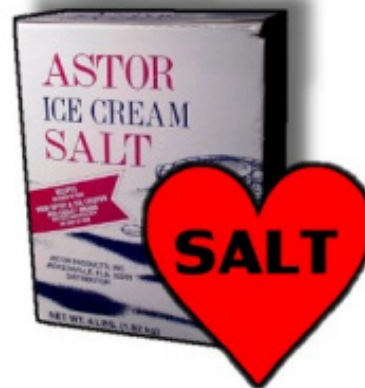


The Gear

- ANY Waterline can be saddle-tapped or hose bibbed
- Premade kits simplify the gear
- All kits are expandable 1/4" line



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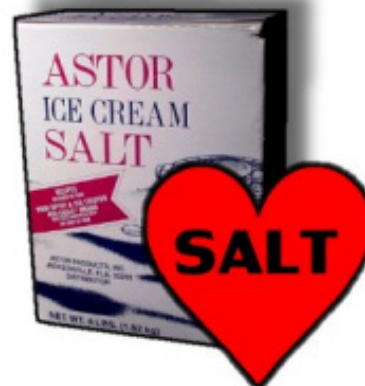


The Basic Requirement

- Outflow of water from tanks or sump is imperative.
- Wide open has to be "okay" at least overnight.
- Large lines discouraged.



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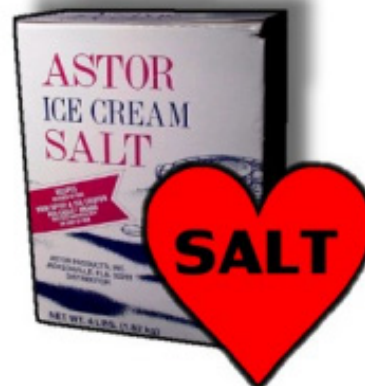


The Basic Concepts

- Dechlor not needed
- Flow rates to replace 20% of system volume per WEEK
- 2,000 gallon central system - 168 hours a week - 25% replacement = 2.5 gallons an HOUR



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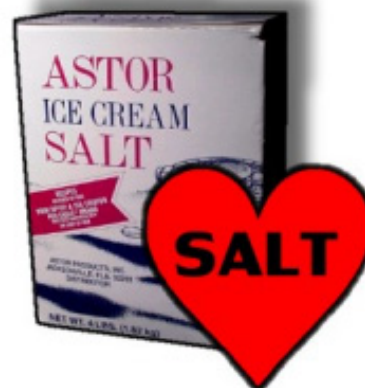


Dechlor?

- NO!!!!!!
- Example: 2,000 gallon system to get 60 gallons a day
- 60 new gallons chlorinated in 2,000 gallons per DAY is 0.03% new water at any given time.
- Chlorine / Chloramine **IRRELEVANT** at those levels.



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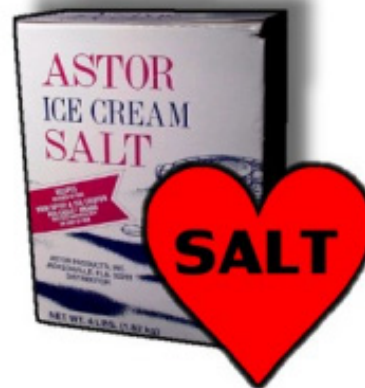


The Sensitive

- Sensitive to water parameters.
- Sensitive to feed and time of day
- Sensitive to bullies



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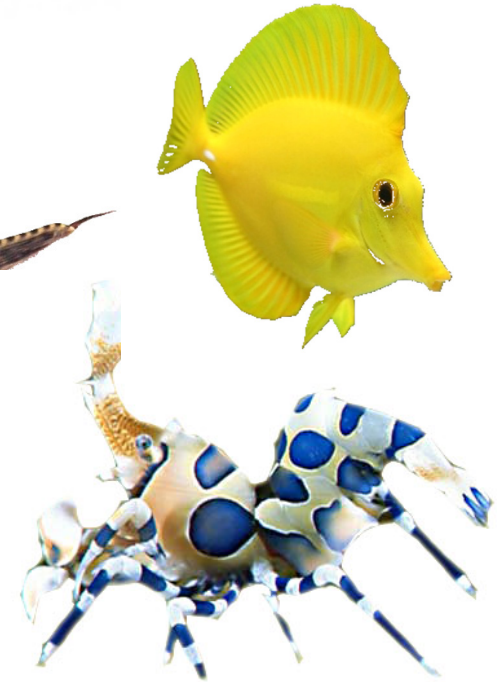
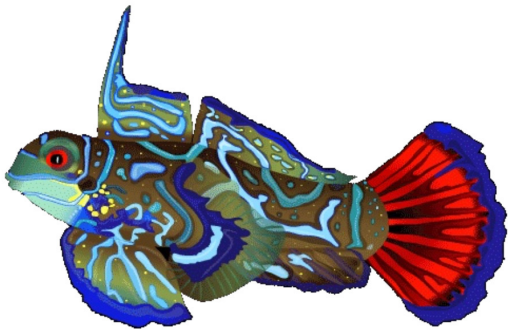


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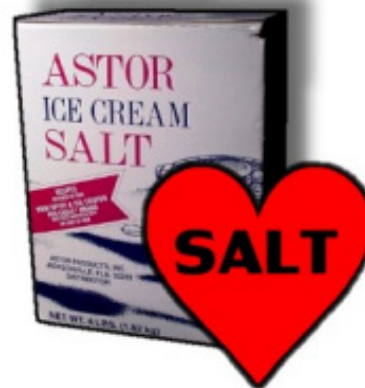




The Hungry



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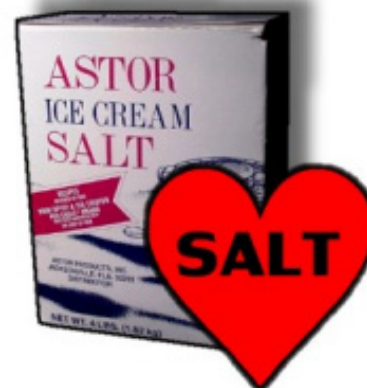


The Infections

- Bacteria do NOT cause bacterial infections
- Warm clean water, hiding places, proper parameters, good food and MAYBE antibiotics work. Live plants.



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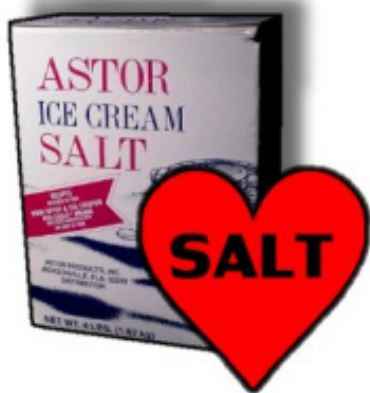


Infections - Treated

- Perfect warm water suited to fish, perfect food like Krill
- Tricide Neo and Medicated food



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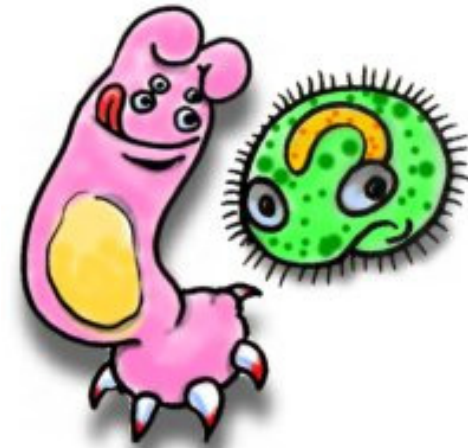
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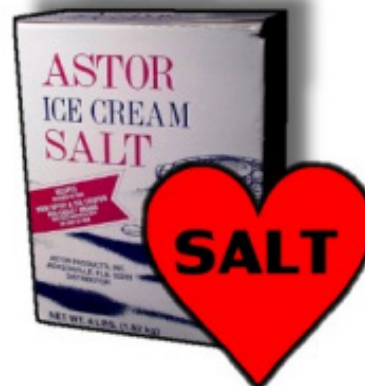


The Bugs

- Flukes, Argulus
- Chilodonella, Argulus
- Ich, Scyphidia
- Trichodina, Costia



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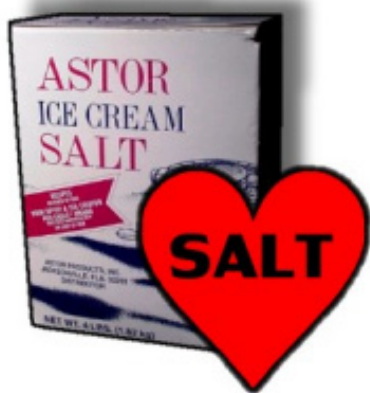


Salt For Bugs

- 99% Pure salt
- Clears MOST parasites
- Costia and Flukes NO



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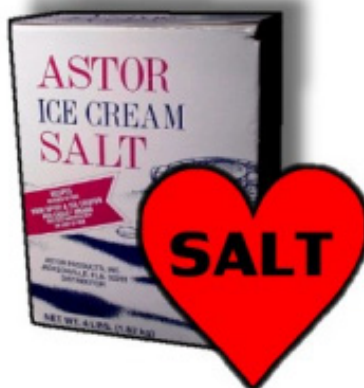
What Salt?

- Iodized OKAY
- Instant Ocean okay for hardwater fish
- Rock, Kosher, Solar and Water Softener Salt OK

ONLY
IF
99.9%
Pure
Salt!



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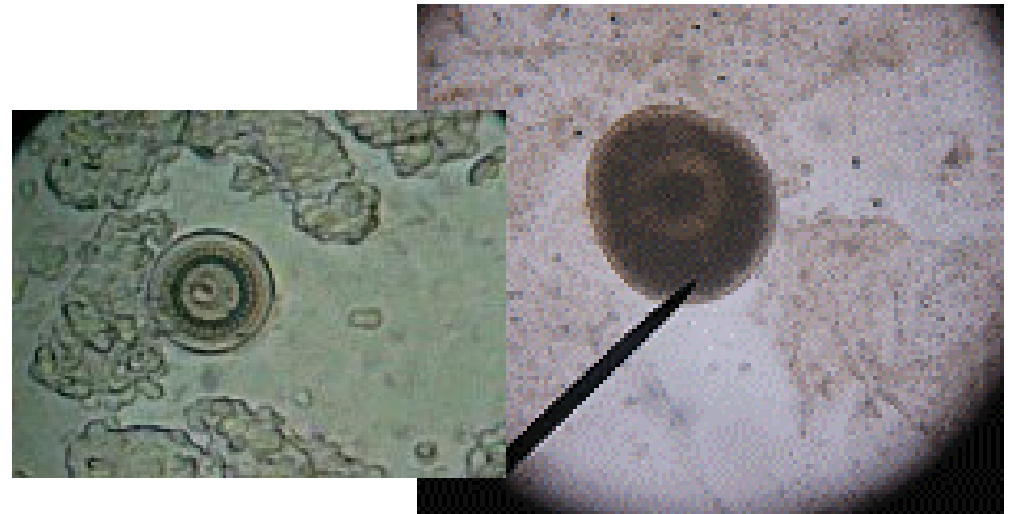
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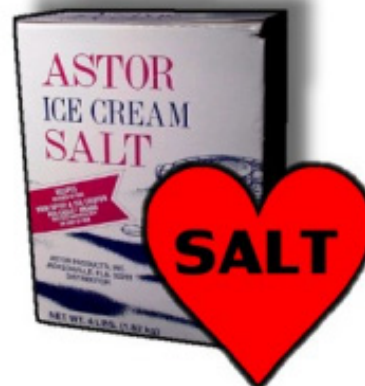


All the Time?

- At retail - YES
- At home - No
- If you use rock salt so will your customers.



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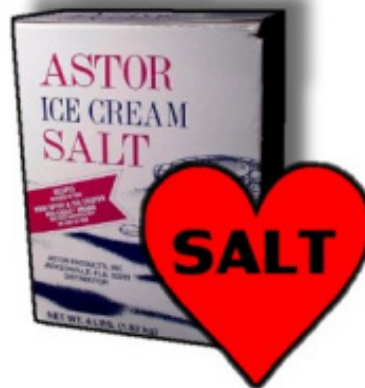


How Applied

- 3 lbs per 100 gallons
- 1 tablespoon per gallon
- Leave in 14 days
- **NO LIVE PLANTS**



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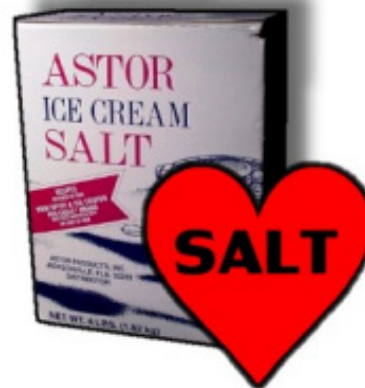
Precautions!

- Rafael cats, Brokis Britskii (wild caught) and lots of wildcaught Amazon fish → NO SALT
- Live plants are ghosted.

If you're not sure ask Barry.



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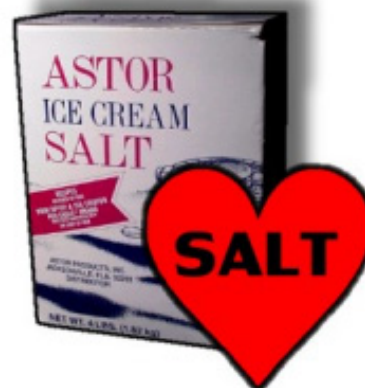


Last Word on Bugs

- If you had Prazi, Dimilin, Formalin, Tricide, Medicated Food and Salt around - NO BUG would be a long term problem.



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**"BUT HOW DO
I KNOW WHAT
TO TREAT
WITH, DAMN
YOU?"**



**I'll spank you if you
say Damn again....**

YES MOTHER.....



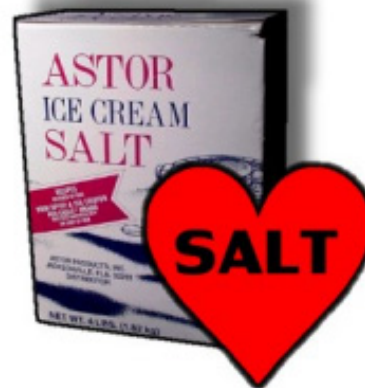
The Microscope

- Inexpensive & Easy
- Microscopesandmore.com
- National 114-LED
- Professional Looking
- Mutual Protection

LED light
Cordless
Glass Optics



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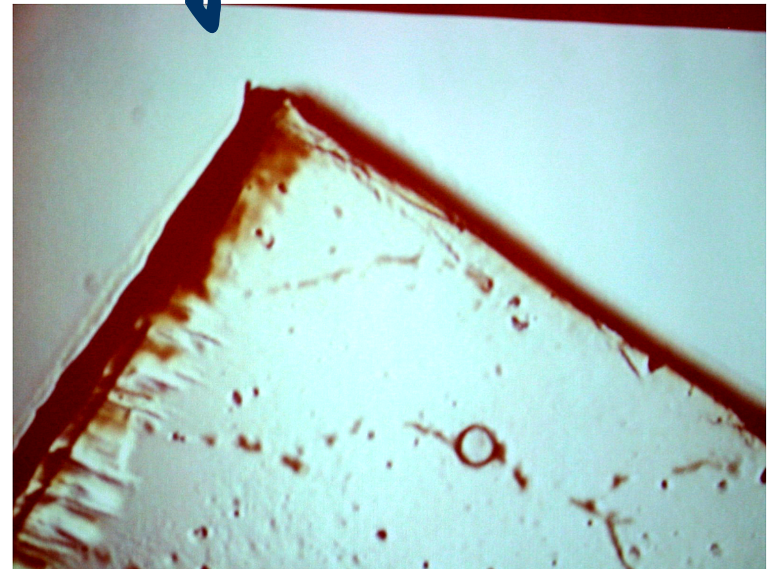
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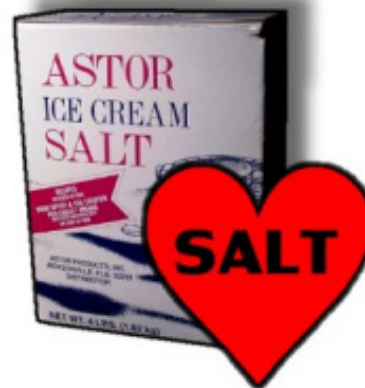


Scope Basics Page One

- Low power first
- Low light first
- Practice Makes Perfect
- Calibrate Scope **FIRST**



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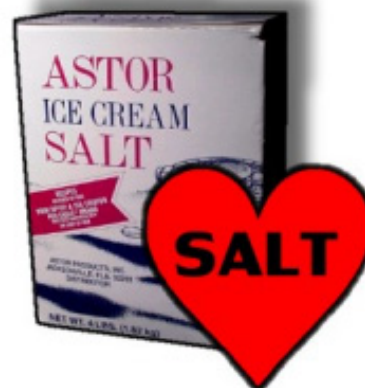


Bug Videos

- There's really only like seven that matter.
- Ich, Trichodina, Chilodonella, Flukes, Costia, Argulus and Anchor Worm
- Two you can eyeball and the rest need the scope.



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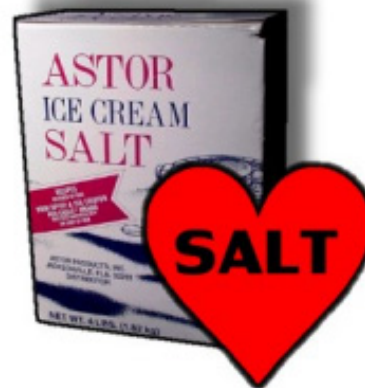


Ich

- Cold water, warm water it doesn't care because there are more than one type.
- Clears with salt - in 70 DF water only takes a few days.
- Kills via gill damage. Impervious under skin.

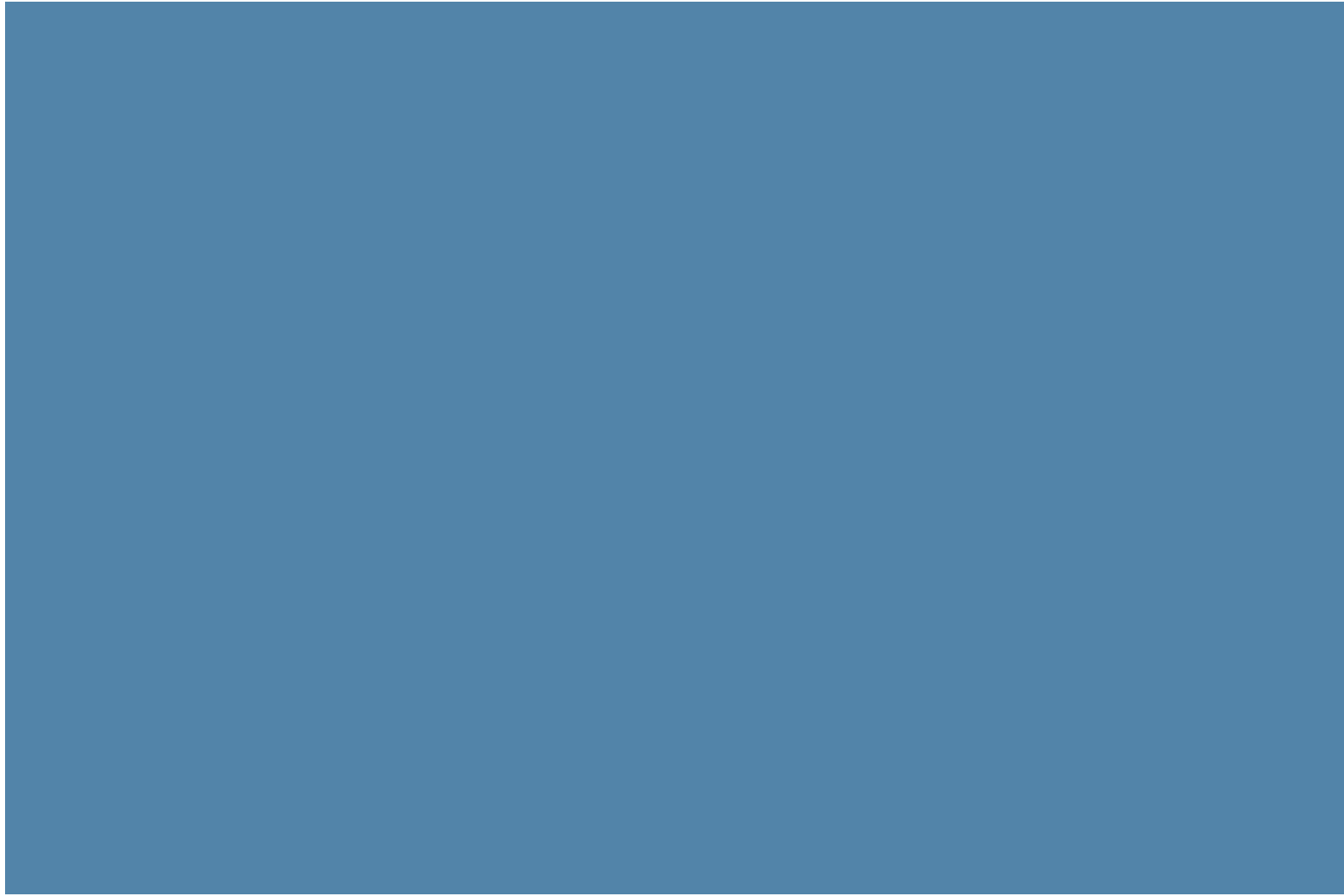


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5

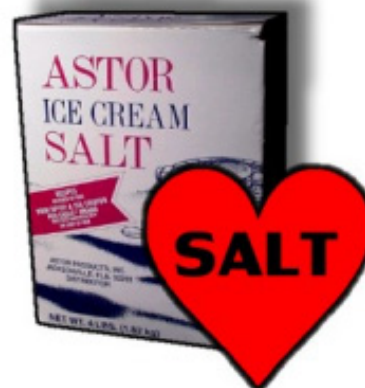


Trichodina

- Fish will pretty much kill themselves scratching.
- Irritates skin, common in pond fish straight from farm
- Killed easy with salt in 70-80% of cases



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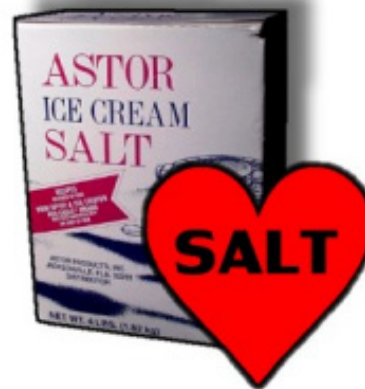


Chilodonella

- Great springtime killer
- Active under scope
- Clears *EASY PEASY* with salt.



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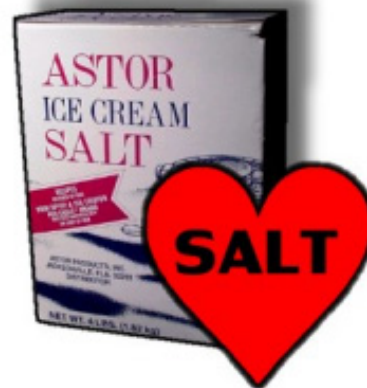


Flukes

- Clears with PRAZIQUANTEL in Prazi, PraziPond, PraziPro, etc. Or Fluke Tabs™
- Good starter for body sores. Common on Koi
- Common in Springtime



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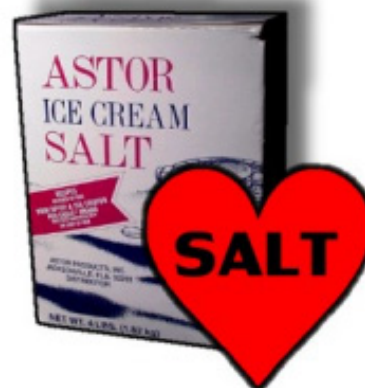


Costia

- Half the time it clears with SALT
- The other times, you should consider using Formalin
- Formalin 25ppm is CRAZY-SAFE with a drip system.
Or requires water changes without one.

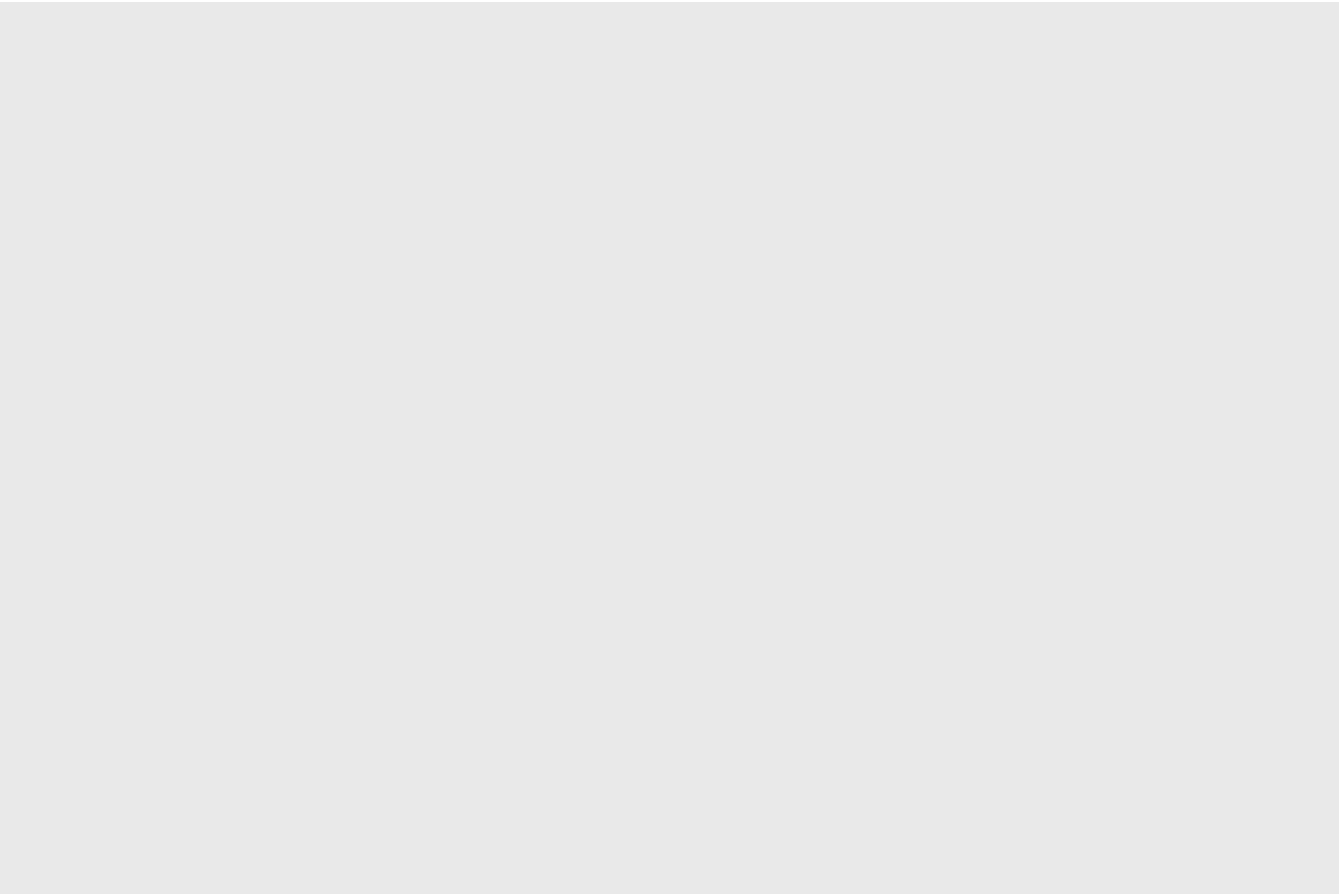


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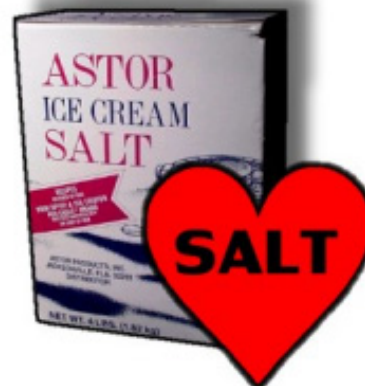


Aquatic Plants & Cover

- Philodina
- Oxygenation
- Nitrate reduction
- Agglutinins
- Excellent in certain tanks with fish for sale. (Also PVC Fittins)
- HUGE difference in tanks with cards and Rams -> Java and Welby Wood



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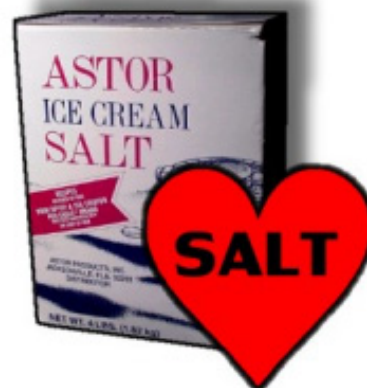


BioSeeding And You

- Yes you damn-well CAN transplant beneficial nitrifying bacteria!
- Selling cultured mats and gravel should NOT be overlooked. Saves fish break-in and THUS, the “my fish died” losses you have to warrant.
- Raise cultures under reptiles and amphibians and NOT FISH!!!



The Stupid, It Burns



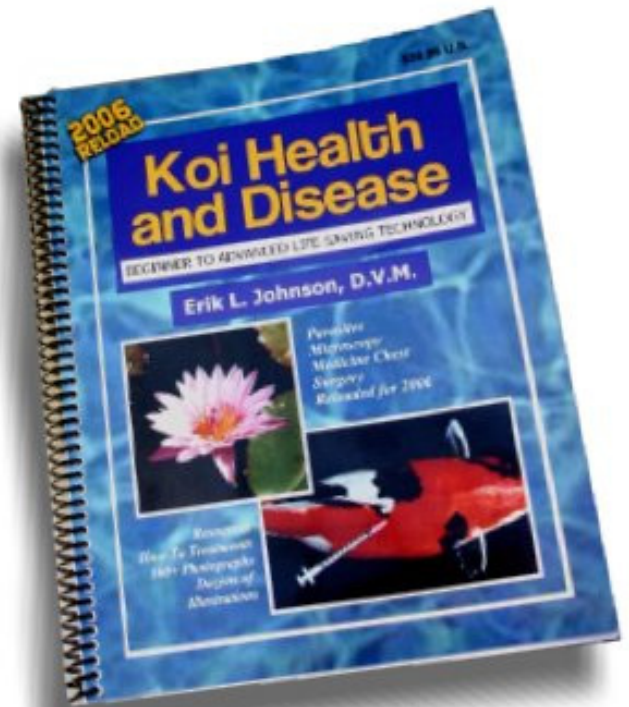
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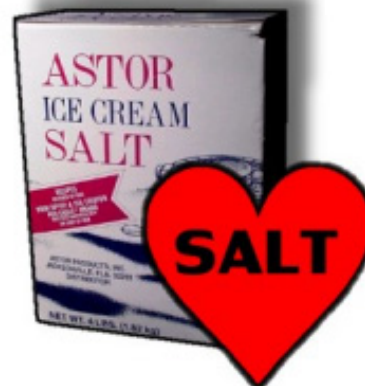


A Shameless Plug

- I wrote "Koi Health & Disease" with 200+ pages, illustrated and in recipe, "How To" format - It truly covers **EVERYTHING**.
- Sell this - answer fewer questions.
- Buy at DrJohnson.com or [here](#)....



The Stupid, It Burns



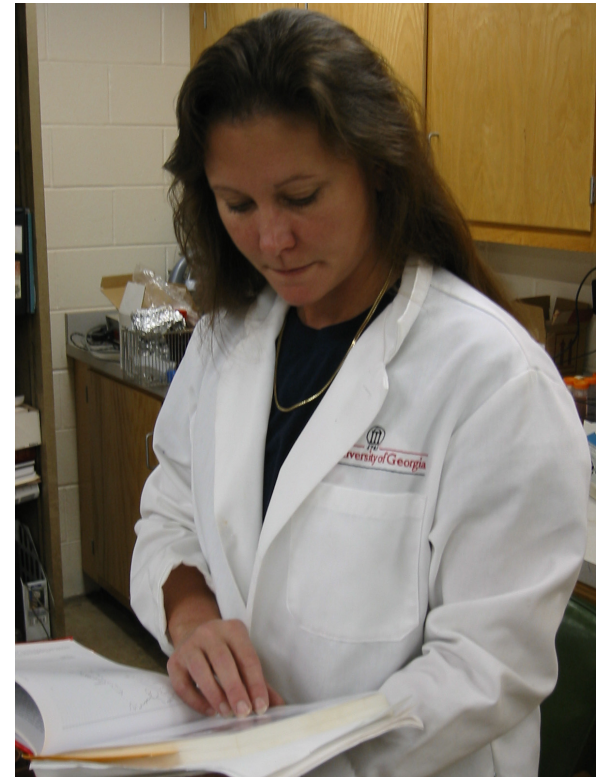
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Further Help

- KOILAB.COM
- Diagnostics of all types, advice, consulting, seminars.
- A friend of mine Vicki Vaughan.
- What more could you want?



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