

EVALUATING THE EFFICACY OF PENNOX 343[®] TO CONTROL MORTALITY IN A VARIETY OF FISH SPECIES

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BACKGROUND

Pennox 343[®] - soluble powder

- Broad spectrum antibiotic
- 512 g active Oxytetracycline hydrochloride/pk (75.6%)
- Sponsor: Pharmgate Animal Health

Approval in fish

- Skeletal marking in finfish fry and fingerlings
 - Marking regimen: immersion bath at 200-700 mg OTC-HCl/L for 2-6 h
- Expanding the Label for therapeutic uses in fish
 - Control mortality due to:
 - **Columnaris disease in freshwater-reared non-salmonids**
 - Bacterial gill disease in freshwater-reared non-salmonids
 - **Coldwater disease in salmonids**
 - Columnaris disease in ornamental finfish



FIELD STUDIES ON COLUMNARIS DISEASE

Richloam FH, Florida Bass Conservation Center

- 2 studies on Bluegill
- December 2013 & October 2014
- 20 & 49 mg OTC-HCl /L water



- Mean % cumulative mortality at end of the studies:
 - Treated, 23%; Control, 26%; $P = 0.7019$
 - Treated, 34%; Control, 42%; $P = 0.0849$
- **Not efficacious**
- **CVM did not accept studies**

FIELD STUDIES ON COLDWATER DISEASE



Bozeman Fish Technology Center, MT

- 2 studies, Rainbow trout & Cutthroat trout
- May 2014 & September 2015
- ~ 50 mg OTC-HCl /L water

- Mean % cumulative mortality at end of the studies:
 - RBT – Treated, 13%; Control, 22%; $P = 0.0326$
 - Efficacious, CVM accepted
 - CTT – Treated, 99%; Control, 100%; $P = 0.9773$
 - Confounding *Costia* spp. infection
 - Not efficacious, CVM response due Sept.

