Antibiotic Stewardship in Aquatic Livestock Production

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Spillhaus Projection
Assuming NO Abx (or little use)

Alternatives: Appropriate first responses:

- Biosecurity for primary pathogens
- Environment control/modification for species
- Vx for expected and economically important
- Clinical Dx for distinction of etiologies
- Passive immunity for contrary infections
- Immunostimulants for innate mobilization
- Control of biotope populations
- Discontinue/alternate some Disinfectants
- Genetic selection
Globally:

17 industrialized species of aquatic livestock
~40 countries w/ significant activity
Major progress in marine/estuarine spp.
(Aquatic Livestock + Wild) > (Beef + Pork + Chicken)
3 billion get > 20% animal protein from fish

USA:

Major species (CCF, RBT, ASL, TLP)
VFD since 2006 for Aquaflor. OTC & RMT
1 Health Authority but 3 Federal Agencies regulate
3 categories of livestock (farmed, conserv., pet fish)
TROUT FARMING IN IDAHO
https://ustfa.org/

CATFISH FARMING ON MISSISSIPPI DELTA

Snap-shot of majority of USA Aquatic Livestock Facilities

FLORIDA TROPICAL FISH FARM
http://www.ftffa.com/content/fish_farming_in_fl.php

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Thank you!