

PRO4000X IN FISH PONDS

The accumulation of organic material in fish ponds is typically a result of accumulated fecal material and uneaten feed. The bacteria in PRO4000X have been selected to degrade this organic matter.

Freshwater fish farms are typically dirt ponds but come in all shapes and sizes. Some use fiberglass, PVC, or concrete tanks. Others use cages in reservoirs, lakes, or even large ponds. There are several approaches that can be taken to lessen the amount of accumulated organic matter ranging from closing the ponds and allowing them to evolve to biofloc based systems to exchanging water at high rates to flush the accumulated matter out into the environment. The latter is not considered environmentally friendly and is typically not sustainable. Large amounts of organic material flushed into riverine or estuarine systems pose a threat to indigenous fauna and flora as well as other users of the resource.



Cage Culture of Tilapia

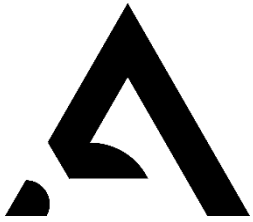


Pond Culture of Tilapia

- ✓ Less accumulated sludge
- ✓ Cleaner water
- ✓ Less water exchange = less cost
- ✓ Healthier pond bottoms
- ✓ Lower hydrogen sulfide levels
- ✓ Lower ammonia levels
- ✓ Less blue green algae (by competitive exclusion)
- ✓ Higher survivals
- ✓ Healthier animals
- ✓ Better feed consumption

Our clients report many different benefits.





PRO4000X IN FISH PONDS

Each pond is a unique environment. For this reason we can only offer you guidelines for the of the product. You should adjust the dosage of tablets as you deem necessary.

Ideally application should begin as early as is practical and continue on a regular basis throughout the cycle to allow the bacteria to maintain some control over the sludge as it accumulates. Application rates are based on how much work the bacteria have to do and what specifically your goals are. You should start out with relatively low numbers of tablets and gradually increase them. Soy/molasses should be added 12-18 hours after the tablets have been added. Do not flush the ponds for at least 48 hours after the tablets have been added. The table below is a guideline you can use to get a rough idea about how many tablets to use when. If you do not see a benefit within a short period of time, increase the number of tablets you are using.

Day	Week	Tablets/ha	Day	Week	Tablets/ha
7	1		119	17	
14	2	10	126	18	55
21	3		133	19	
28	4	15	140	20	55
35	5		147	21	
42	6	20	154	22	60
49	7		161	23	
56	8	25	168	24	60
63	9		175	25	
70	10	30	182	26	65
77	11		189	27	
84	12	45	196	28	70
91	13		203	29	
98	14	50	210	30	80
105	15		217	31	
112	16	50	224	32	100

This table is based on one ha surface area, one meter deep equal to 10 million liters of water. Quantities used should be adjusted proportionally down to about one half ha. Below that you should use the same number of tablets that you would for a one half ha. Adjust the dosage as you see the benefit.

Example: A dirt pond 10 by 32 meters, 1.5 meters deep is equivalent to approximately one half million liters of water or 5% of a ha. Using the table, start with 5 tablets per pond at week 2 and add tablets 50% of the level indicated in the table.

Additional Suggestions: Prior to filling the ponds use our powdered product (AQUAPROB). Alternately use our product in biodegradable bags that contain (AQUAPRO-EZ) nutrients that will help the bacteria grow in lieu of or in addition to tablet application.