

ADVANTAGES OF INSTALLING A CLEAN-FLO SYSTEM IN FISH PONDS
FOR GROWTH OF TILAPIA IN TAIWAN

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>PADDLEWHEEL (NON CLEAN-FLO)</u>	<u>CLEAN-FLO SYSTEM</u>
1	Fish kill	Yes	No--growth rate at 2x
1.1	Surf. D.O. 11:00 night	12-15 mg/l 2-3 mg/l	7-8 mg/l 4-5 mg/l
1.2	Bot. D.O. 11:00 night	3-4 mg/l 0 mg/l	5-6 mg/l 3-4 mg/l
2	EPA allowed # of pigs	325 pigs	800 pigs (2.46x growth)
3	Discharge pig manure to fish pond	30%	100%
4	Replace water	Yes	Not required
5	Fined by EPA	Yes (approx. US \$2,400)	No
6	Taste of Fish	No good	Good
7	Power Consump.	8 HP	1 HP

PS: The fish pond surface area about 1.3 Ha, water depth 6-7ft.

The power consumption charge saves about US\$2,050/year based on 12 hours/day operation.

ADVANTAGES OF INSTALLING A CLEAN-FLO SYSTEM IN FISH PONDS
FOR GROWTH OF BLACK CARP IN TAIWAN

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>PADDLEWHEEL (NON CLEAN-FLO)</u>	<u>CLEAN-FLO SYSTEM</u>
1	Fish kill	Yes	No--growth rate at 2x
1.1	Surf. D.O. 11:00 night	12-15 mg/l 2-3 mg/l	7-8 mg/l 4-5 mg/l
1.2	Bot. D.O. 11:00 night	3-4 mg/l 0 mg/l	5-6 mg/l 3-4 mg/l
2	Sales Profit	US \$3/ea	US \$ 14.4/ea (4.8 x profit)
2.1	Growth Rate	4 months	4 months
2.2	Weight ea.	3 Kg (more)	6 Kg or above
2.3	Cost	US \$2/Kg	US \$2/Kg
2.4	Sales Price	US \$3/Kg	US \$4.4/kg
3	Replace water	Yes	Not required (water saving)
4	Fined by EPA	Yes (approx. US\$ 2,400)	No
5	Taste of Fish	No good	Good (no toxic air and anaerobic organic muck)
6	Power Consump.	8 HP	1 HP

PS: The fish pond surface area about 1 Ha, water depth 6-7ft.

The power consumption charge saves about US\$2,050/year based on 12 hours/day operation.