# INCREASE PROFITS & REDUCE COSTS WITH THE POWER OF PROBIOTICS





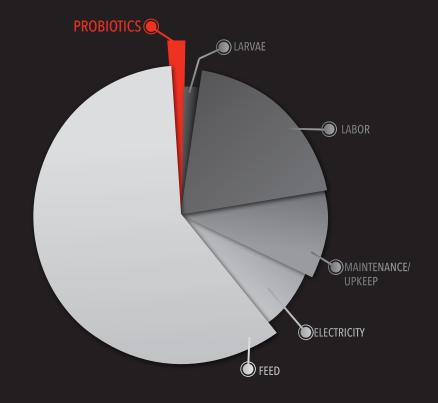
#### **INCREASE SURVIVAL AND GROWTH**

Farmers have experienced survival of up to 100% with increased growth rates between 10% and 35%.

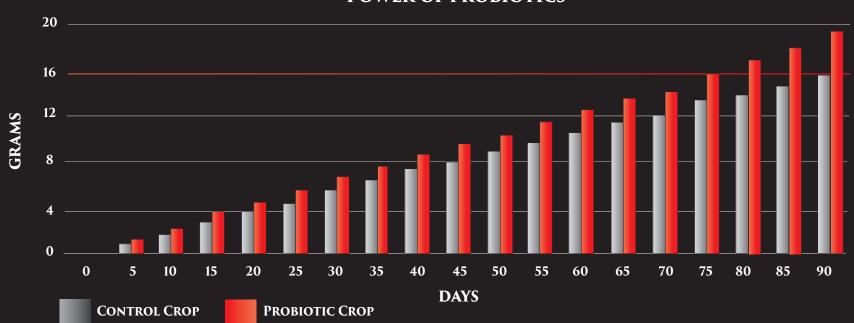
Probiotics are a fraction of total production costs. Using probiotics will reduce the cost of labor, feed and maintenance, while increasing overall growth and survival of the animals, which increases profits.

#### FACT:

Probiotics account for a small fraction of total production costs yet increase yield by 30% on average.



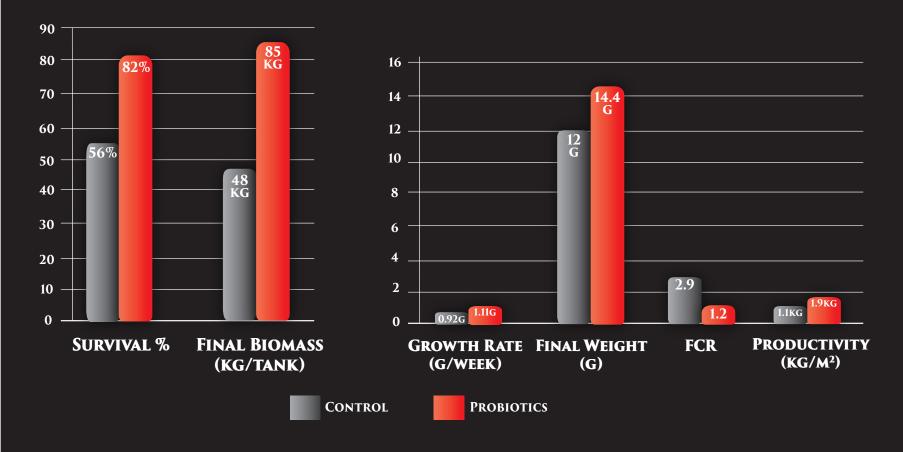
#### **POWER OF PROBIOTICS**



# INCREASE YIELD AND PROFIT

Probiotics dramatically improve final harvest. Improved feed conversion means less food to produce more fish. Uneaten food is consumed by beneficial bacteria that are then eaten by fish. Your feedings become more efficient and more feed is converted to flesh, saving you money. Improved FCR means more profit.

FACT:
Probiotics reduce off flavor.



	GROSS INCOME PER/M <sup>2</sup>	Gross Income Farm Total
PROBIOTICS	\$7.10	\$1,420,738.56
CONTROL	\$4.04	\$800,550.40





# INCREASE HEALTH, IMMUNITY, AND WATER QUALITY

Probiotics consume organic waste and uneaten food before they begin to decay, preventing accumulation of harmful ammonia, nitrite, and nitrate that are difficult to remove, can be toxic, and can cause health problems.

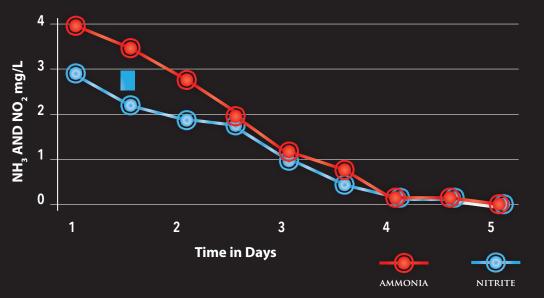
When probiotics are consumed by animals they stimulate immune response, produce inhibitory compounds toward pathogens, and compete directly with pathogens for nutrients and habitat.

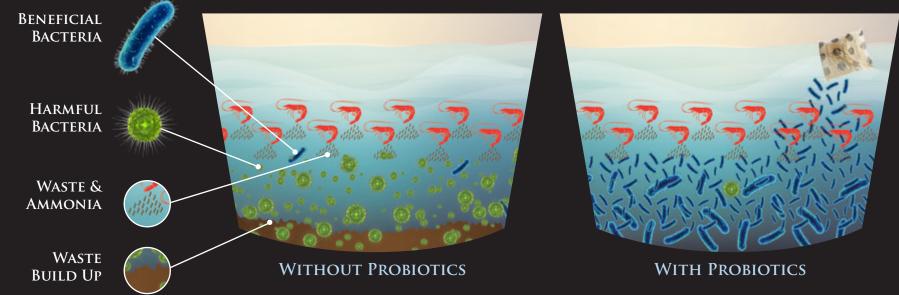
Improved water quality reduces the need for water exchanges, increasing biosecurity.

# FACT:

To be a good Fish or Shrimp Farmer, you have to be a good Bacteria Farmer.

#### AMMONIA AND NITRITE REDUCTION IN TILAPIA PONDS





#### BENEFICIAL BACTERIA VS. HARMFUL BACTERIA

Aquaculture ponds are constantly exposed to bacteria during growout. Using probiotics to manage your bacterial community with beneficial bacteria reduces exposure to opportunistic pathogens.

Gause's law of competitive exclusion states: Two species competing for the same resource cannot coexist at constant population values, if other ecological factors remain constant. One of the two competitors will always have an advantage over the other.

Probiotics outcompete pathogens for resources. Use probiotics to dominate your bacterial community and outcompete harmful organisms.

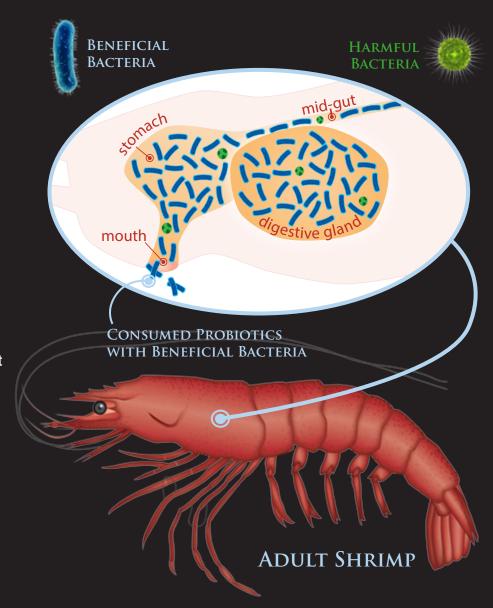
#### PROACTIVE VS. REACTIVE

Proactive, consistent application is less expensive than reactive treatment. Consistent application provides the most benefit at the lowest cost while addressing all facets of health. Reactive treatment requires more product to address the latest crisis.

#### FACT:

Using probiotics preventatively and consistently throughout the entire lifecycle ensures the best results at the least expense. Emergency, reactive treatment costs the same without all the benefits of consistent use.

#### **COMPETITIVE EXCLUSION**





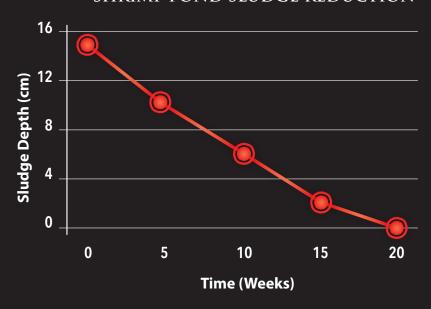
#### REDUCE SLUDGE AND ORGANIC DEBRIS

Probiotics consume sludge and organic debris converting them to bacterial biomass which becomes an additional protein rich food source, improving FCR. That means less sludge, better water quality, and bigger profits.

# FACT:

Used as directed probiotics reduce sludge allowing ponds to be restocked immediately saving time and money between cycles.

#### SHRIMP POND SLUDGE REDUCTION





#### **ORGANIC WASTE**

is reduced, which improves pond bottoms, reduces labor costs, and decreases pollution.



#### HAPPY CUSTOMERS WITH HAPPY FARMS

"I have tried dozens of probiotics with limited success until I found Keeton probiotics. My farm is now more profitable than ever."

- Dennis, Peru

"We harvested the bass pond that most of the PondToss was used in. Turns out we have over 4000 pounds of market size bass per acre. Our farm has historically averaged 1500 pounds per acre. Last year with a different probiotic we averaged 2500 to 2800 pounds per acre."

- Robert, United States

"I love PondToss. It works great. If a tank is off color and I use PondToss the next day I see the tank turn around and be back to normal."

- Orlando A., United States

"I had a great harvest when many around me, twenty something and counting lost their ponds to white spot.

"... As a shrimp farmer, I know, if used correctly, ShrimpShield can greatly reduce the occurence of WSS (white spot) and other diseases ..."

- Khanh Le, Vietnam

"We whole heartedly endorse the use of probiotics and have found them to be a cost effective tool that has had a significant impact on our productivity and profitability."

- Jorge, Belize







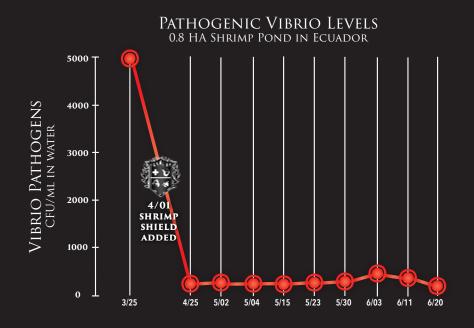




#### SHRIMPSHIELD<sup>TM</sup> SHRIMP PROBIOTICS

Developed specifically for use with shrimp and prawns. Designed to boost shrimp health, improve immunity, out compete pathogens including Vibrios and devour organic waste and sludge.





#### **APPLICATION PROCEDURE:**

Initial Dosage: Evenly distribute ShrimpShield™ over water surface. 1 Kg (4 bags) per Hectare every 5 days, for 10 days. Maintenance Dosage: 0.5 Kg (2 bags) per Hectare once every 5 days throughout the remaining growth cycle.

#### 30 DAY TREATMENT CYCLE:

Day 1: 1 Kg (4 bags)Day 15: 0.5 Kg (2 bags)Day 5: 1 Kg (4 bags)Day 20: 0.5 Kg (2 bags)Day 10: 1 Kg (4 bags)Day 25: 0.5 Kg (2 bags)Day 30: 0.5 Kg (2 bags)

#### HATCHERY, NURSERY & RACEWAY:

Apply 1 - 2 grams per ton of water every day throughout the growth cycle.

#### PHYSICAL SPECIFICATIONS:

ShrimpShield<sup>™</sup> is shipped in an 11 Kilo Bucket and stacked 96 buckets to a pallet. Each bucket is filled with 44, 250gram water soluble bags.

#### **PRODUCT SPECIFICATIONS:**

Bacterial Count	2.0 billion cfu/gm
Appearance	Tan, Granular
Odor	
pH	Neutral
Effective pH Range	5.8 to 10.5
Shelf Life	2 years
Effective Temp. Range	10° to 38°C (50° to 100°F)

# PONDTOSS<sup>TM</sup> FIN FISH PROBIOTICS

Developed with a specific combination of bacteria for aquaculture. Fish are constantly exposed to bacteria during growout. Using PondToss™ to manage your bacterial community with beneficial bacteria reduces your exposure to opportunistic pathogens.



# INFECTED WITH STREPTOCOCUS NORTH DAKOTA INTENSIVE RECIRCULATION FARM 300 10/26 POND TOSS ADDED 50 10/26 POND TOSS ADDED

MORTALITY REDUCTION IN TILAPIA

#### **APPLICATION PROCEDURE:**

Initial Dosage: Evenly distribute PondToss™ over water surface. 1 Kg (4 bags) per Hectare every 5 days, for 10 days. Maintenance Dosage: 0.5 Kg (2 bags) per Hectare once every 5 days throughout the remaining growth cycle.

#### 30 DAY TREATMENT CYCLE:

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#### HATCHERY, NURSERY & RACEWAY:

Apply 1 - 2 grams per ton of water every day throughout the growth cycle.

#### PHYSICAL SPECIFICATIONS:

PondToss<sup>™</sup> is shipped in an 11 Kilo Bucket and stacked 96 buckets to a pallet. Each bucket is filled with 44, 250gram water soluble bags.

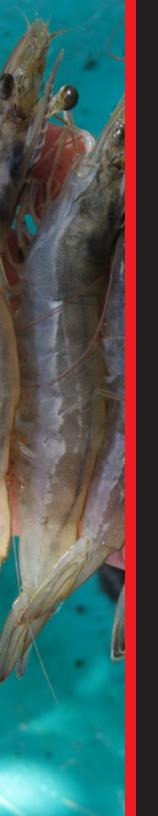
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#### **PRODUCT SPECIFICATIONS:**

Bacterial Count	2.0 billion cfu/gm
Appearance	Tan, Granular
Odor	Yeast
pH	Neutral
Effective pH Range	5.8 to 10.5
Shelf Life	2 years
Effective Temp. Range	10° to 38°C (50° to 100°F)





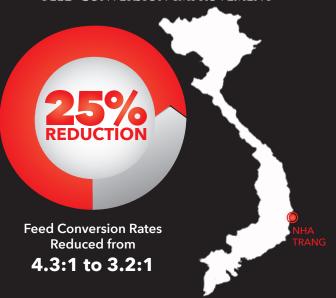
#### FEEDTREAT<sup>TM</sup>

#### **CAGE CULTURE PROBIOTICS**

Developed specifically for cage culture and flow through systems. FeedTreat™ delivers probiotics directly to the animals gut. Proper application of FeedTreat™ creates an immense colony of beneficial and desirable bacteria that dominates the gut and outcompetes pathogenic microorganisms through competitive exclusion.



# VIETNAM LOBSTER FEED CONVERSION IMPROVEMENT



#### **APPLICATION PROCEDURE:**

FeedTreat<sup>™</sup> is easy to apply to natural feed or commercial feed. Apply based on FCR. Apply 0.05%-2% of feed weight one feeding per day, every day.

Feed Conversion Rate	0-2	2-3	3-4	4+
Grams of FeedTreat per kilogram of feed	5g/kg	10g/kg	15g/kg	20g/kg

**For Dry Feed:** Add water to moisten FeedTreat™ enough to adhere to dry pellets and mix thoroughly. Avoid using excessive water to ensure full absorption by feed. Substitute a natural oil for water if not feeding right away.

**For Moist Feed:** Apply dry formula directly to moist feed and mix thoroughly to evenly distribute on feed.

#### PHYSICAL SPECIFICATIONS:

FeedTreat<sup>™</sup> is a highly concentrated blend of bacterial spores that remain inactive until they enter the culture water when applied as directed. FeedTreat<sup>™</sup> is shipped in an 11 Kilo Bucket and stacked 96 buckets to a pallet.

#### **PRODUCT SPECIFICATIONS:**

Bacterial Count	2.0 billion cfu/gm
Appearance	White, Granular
Odor	None
pH	Neutral
Effective pH Range	5.8 to 10.5
Shelf Life	2 years
Effective Temp. Range	10° to 38°C (50° to 100°F)

#### CAGE CULTURE

Until now cage culture faced challenges not experienced in closed systems. FeedTreat was developed to bring the benefits of closed systems to cage culture.

FeedTreat™ works for all species of finfish, crustaceans, and molluscs in freshwater, brackish, or saltwater conditions. Wherever you grow your crop you can expect improved results by incorporating FeedTreat™ in your operation.

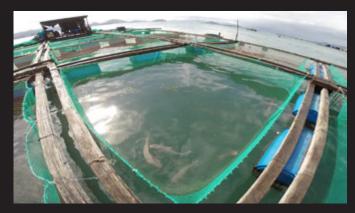
FeedTreat™ is an easy to administer probiotic applied directly to raw feed or wetted and applied to commercial feed. FeedTreat does not require incubation to activate. Our highly concentrated formula begins to work as soon as it is fed to animals. No more time waiting on incubation.

# COBIA FINGLERLINGS OCEAN CAGE SURVIVAL RATES



100% of Cobia Treated with Probiotics Survived.





#### VIETNAM COBIA GROWOUT

HARVESTED

45

DAYS EARLIER

WITH PROBIOTICS

**405** D A Y S

WITHOUT PROBIOTICS

**445** D A Y S

