



MEGA X a microbial supplement that improves shrimp health

Field proven tool to enhance shrimp production. Tested and used on billions of PLs. Cost to use is less than five cents per 1000 PLs. Eliminates weak PLs from the population. Animals show increased tolerance to vibrio infection and viral infections. In all of the pond experiments below the experimental ponds equaled the number of control ponds. Every effort was made to standardize variables (tests were run concurrently with PLs from identical suppliers, etc.)

Larger shrimp with excellent cost benefit

Field Trial Ecuador	3.5 ha	6 ponds	280,000 animals	
	Experimental	Control	Difference	Increase (%)
Survival (%)	57.6	48.4	9.2	19
Weight (g)	9.2	9.7	-0.5	-5.2
lbs/ha	1614	1412	202	14.3
Relative Margin	\$ 1.00	\$ 0.81	\$ 0.19	23.8
Cost Benefit	925			

Margin based on average selling price of shrimp over the course of the trial
Cost benefit showed a return of \$9.25 for every \$1 spent on the product

Field Trial Ecuador	181 has	18 ponds	18 million animals total	
	Experimental	Control	Difference	Increase (%)
Survival (%)	57.3	56.7	0.6	1.1
Weight (g)	14.24	13.29	0.95	7.1
lbs/ha	1728	1609	119	7.4
Relative Margin	\$ 1.00	\$ 0.66	\$ 0.34	51.5
Cost Benefit	9200			

Margin based on average selling price of shrimp over the course of the trial
Cost benefit showed a return of \$92 for every \$1 spent on the product

Much higher survivals, better growth and excellent cost benefit.

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Field Trial Ecuador	463 ha	24 ponds	83 million animals	
	Experimental	Control	Difference	Increase (%)
Survival (%)	30.7	29.04	1.6	5.8
Weight (g)	10.6	10.4	0.2	1.7
lbs/ha	1254	1167	86.4	7.4
FCR	1.89	2.94	0.15	7.35
Net Return	288			

Margin based on average selling price of shrimp over the course of the trial
Net return shows that the ponds containing PLs that fed on the product netted almost 4 times the return that control ponds did.

Field Trial Ecuador	301 has	32 ponds	29 million animals total	
	Experimental	Control	Difference	Increase (%)
Survival (%)	69	62	7	11.3
Weight (g)	12.3	11.5	0.8	6.7
lbs/ha	1796	1529	267	17.5
Relative Margin	\$ 1.00	\$ 0.59	\$ 0.41	69.5
Cost Benefit	8200			

Margin based on average selling price of shrimp over the course of the trial
Cost benefit showed a return of \$82 for every \$1 spent on the product

Much better FCRs with excellent cost benefit.

Much better growth with excellent cost benefit. Shrimp benefited in the same manner as the controls who were fed antibiotics as needed throughout the growth cycle.

Field Trial Ecuador	62.1 ha	12 ponds	2.2 million animals	
	Experimental	Control	Difference	Increase (%)
Survival (%)	35	31.7	3.3	10.4
Weight (g)	12.87	12.91	0.04	0
lbs/ha	2005	1737	268	15.4

Field Trial Ecuador	90 ha	9 ponds	12 million animals	
	Experimental	Control	Difference	Increase (%)
Survival (%)	62	61.6	0	0
Weight (g)	14.3	13.4	0.9	6.3
lbs/ha	1985	1873	112	5.6
FCR	1.68	1.68	0	0
Relative Margin	1	0.85	0.15	

Margin based on average selling price of shrimp over the course of the trial
All of the control ponds were treated with antibiotics NONE of the experimental ponds were.

Higher survivals in environment not conducive to high survivals. For product to work it must have the optimum environment.

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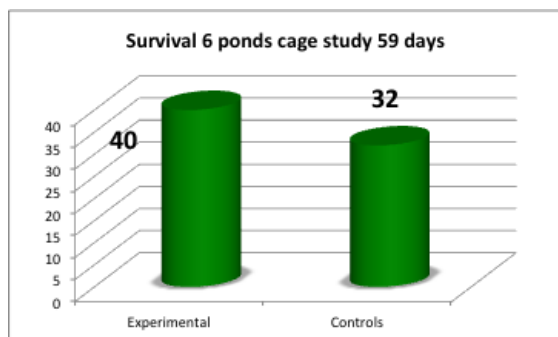
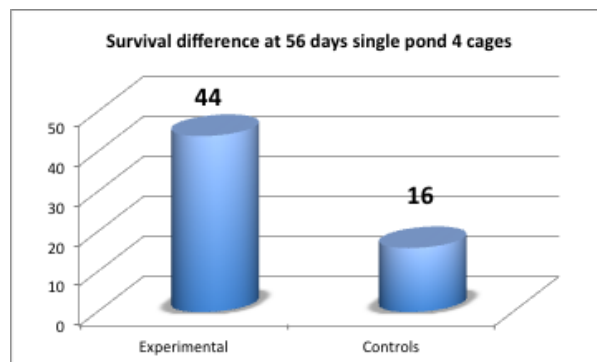


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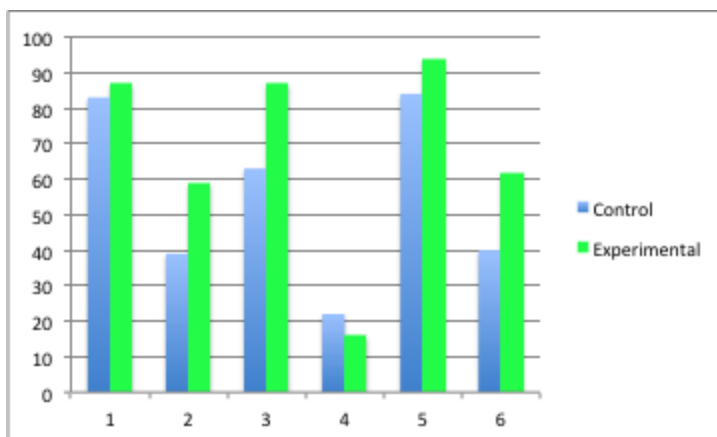
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Honduras Field Trials

At Site A, cages were stocked into a single pond. There 4 control cages and four experimental cages, each containing 40 animals (20 per meter sq.). At fifty six (56) days, the cage experiments were terminated. Only 16% of the controls were alive compared with 44% of the experimental animals. This



At Site B, a single cage was placed into each of six ponds, three controls and three experimental. At 59 days, 32% of the controls survived and 40% of the experimental animals. This 8% difference



Each replicate represents a 2 hectare pond stocked at 200-300 PL7s to PL10s per square meter. PL's were from the same source, same genetic makeup, and the test and control ponds were the same ages and distance from the reservoir. Experiments 1-3 were terminated at 59 days and 4-6 were terminated at day 29. There were substantial differences in survival between controls and fed groups in all of the tests, ranging from 4 to 24%, with a mean of 12.3%.

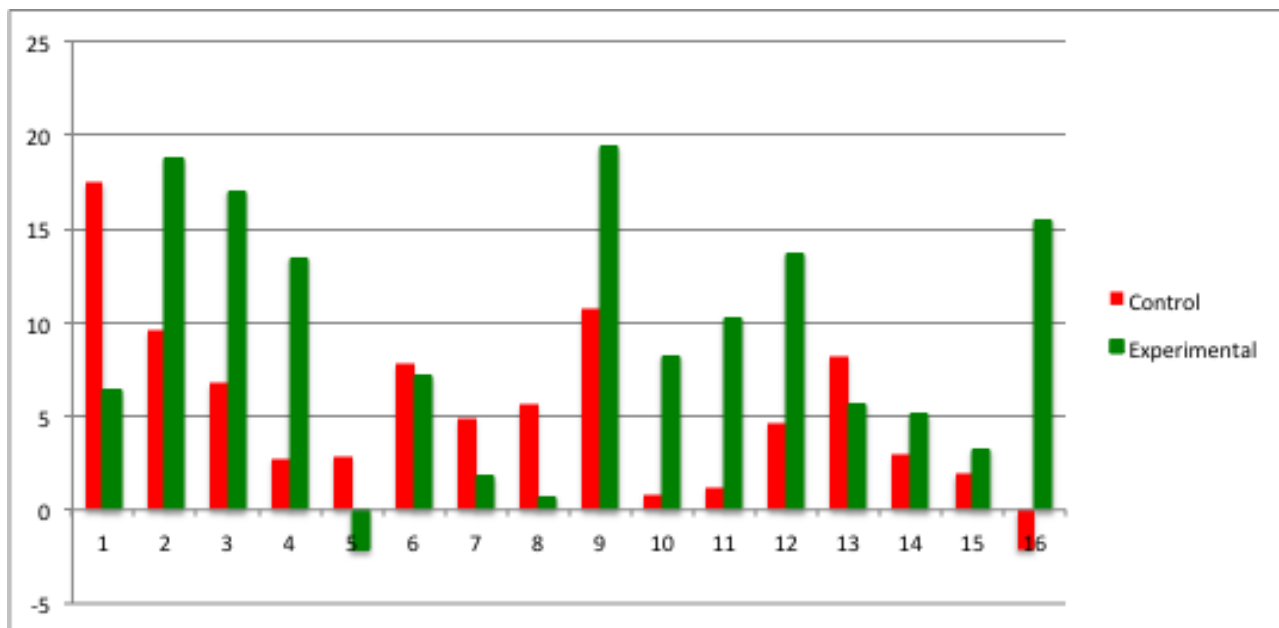
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Ecuador Trials: Margins in dollars per day per ha. 16 ponds total. 10 out of the 16 outperformed their matched control ponds, many significantly.

Panama Trial MEGA X fed to PLs prior to stocking and then fed in the feed along with our glucan gave the results below. Ponds were matched.

	Experimental Ponds			Averages	Controls-set up same time			Averages
Group	1	2	3		4	5	6	
Pond #	41	51	64		48	53	61	
Size (acres)	10	10	10	10	10	10	10	10
Days	101	107	101	103	104	106	111	107
Stocking number	37541	39184	37924	38216	38475	40116	38582	39058
Harvest Number	14908	13000	15949	14619	6902	9602	12367	9624
Survival	39.8%	33.2%	42.1%	38.4%	17.9%	23.9%	32.1%	24.6%
Weight gain/week (g)	0.81	0.62	0.72	0.72	0.72	0.57	0.6	0.63
FCR	1.78	2.43	1.94	2.05	4.38	4.25	2.62	3.75
lbs/acre	384.5	272	369.2	341.9	164	184.1	261.7	203.3
Revenue/pond	\$ 9,422	\$ 5,983	\$ 8,803	\$ 8,069.33	\$ 3,729	\$ 3,883	\$ 5,799	\$ 4,470.33

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