



Enhancement of Layer Hens 7 years experience Czech Republic 1999-2006

Following the successful application of BioCatalyst (Xcelbio) to a number of egg laying flocks in South Africa from 1997 onwards the technology was introduced in the Czech Republic.

The BioCatalyst (Xcelbio) technology was supplied to 15 different farms, for 81 production cycles incorporating 154 production sheds. In each application at least one production shed was kept as a control in order to quantify the benefits for commercial reasons.

In each application hens were placed at 17 weeks of age into all production sheds at the same time, production data was recorded until 63 weeks of age when sheds were depopulated.

More than 2,3 million birds were treated and they produced over 57 million eggs over the 7 year period. Benefits accumulated through feed conversion, eggs produced, reduced downgrades, reduced mortality and reduction in medication. Typically one third of layers were not treated and formed the control of 1,3 million birds.

Feed consumption benefit

Feed Mesh consumption per egg	Feed Mesh consumption per egg	Difference in Feed Mesh Consumption per egg	Difference in Feed Mesh Consumption in %	Total No of eggs produced in TEST in Pcs	Total Feed Mesh savings in TEST in Tons	Total No of Housed Layers in TEST in Pcs	Total Feed Mesh Savings per H.Lay in kg
CONTROL	TEST						
152.32	147.91	- 4.41	- 2.89	574186263	2530.29	2362265	1.07

Egg production benefit

Laying rate per ave count age 19-63 weeks	Laying rate per ave count age 19-63 weeks	Total No Feeding Days age 19-63 weeks	Surplus Egg Production in Pcs	Total No of Housed Layers in Pcs	Surplus Egg Production in Pcs
CONTROL	TEST	TEST			
81.52	84.12	682579960	17711816	2362265	7.50

For sales and technical enquiries contact: infoxcelbio@gmail.com

Enhancement of Layer Hens
7 years experience Czech Republic 1999-2006



Mortality benefit

	Mortality in %	Difference in %
CONTROL	8.89	-
TEST	7.75	- 14.00

Downgrades benefit

CONTROL	2.94	2.01	0.09	5.04	
TEST	1.73	1.42	0.05	3.20	- 35.5

Medication benefits

Medication was applied on an as required basis, savings on drug treatment costs varied between 30 and 60% versus the control sheds per laying cycle.

More case studies available on request.