



BiPath

Research-Proven Zinpro Performance Minerals

At Zinpro, we are proud to invest far more in animal performance studies than any other organic trace mineral company, and our list of over 200 peer-reviewed research publications is unmatched in the industry. We strive to provide our customers with quality information to better explain how our products deliver a positive animal response and improved return on investment.

250+
PEER REVIEW

Animals Don't Lie.

And neither do our 250+ peer-reviewed research studies.



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BiPath

Feed the best
for layers

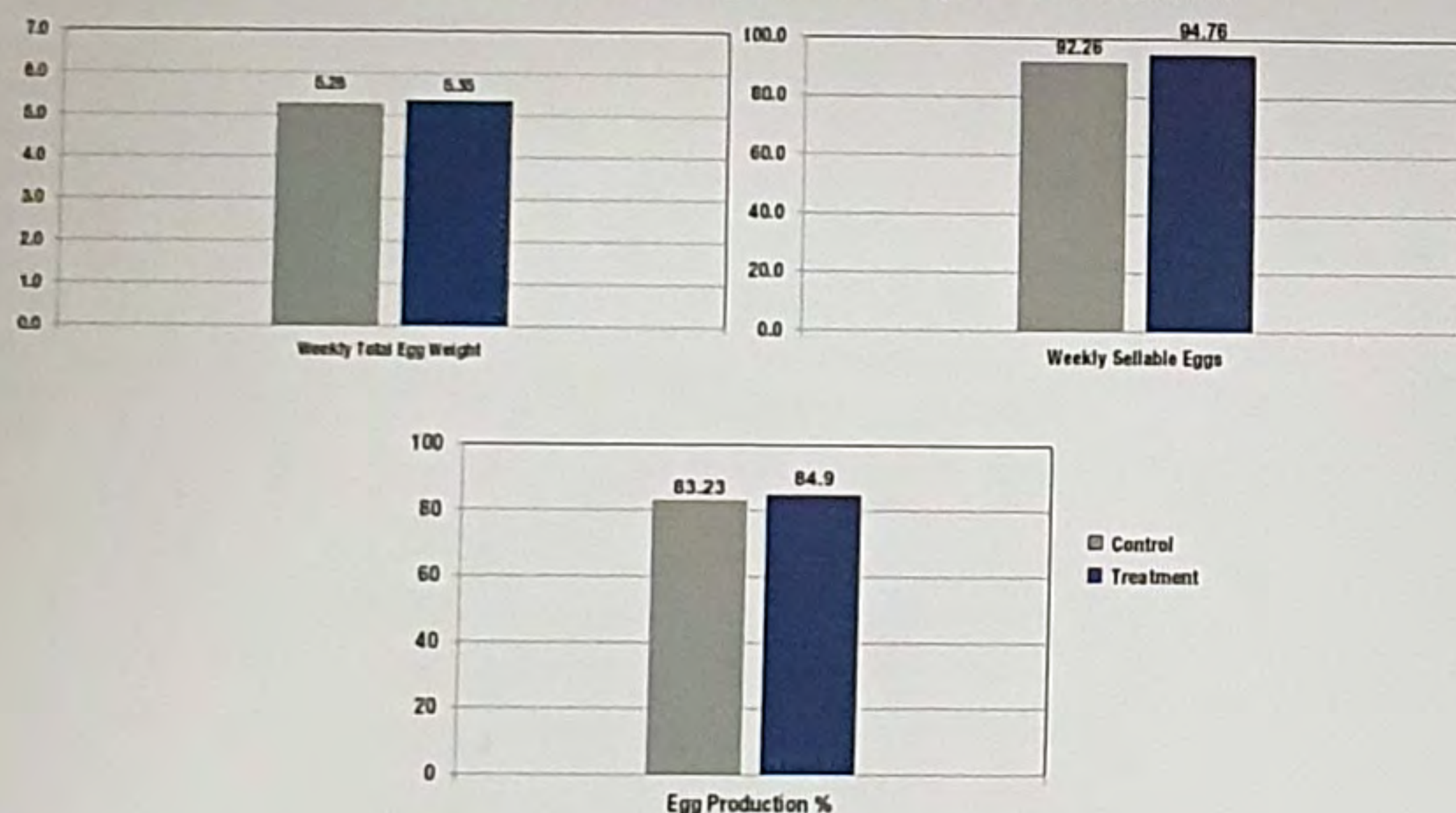
More Than Mineral

To truly thrive, poultry must receive optimum trace mineral nutrition throughout their productive life stages.

Egg Production

Egg Production is the most important parameter of layer performance. Trace minerals is proof to show that can improve the number of total eggs per hen house

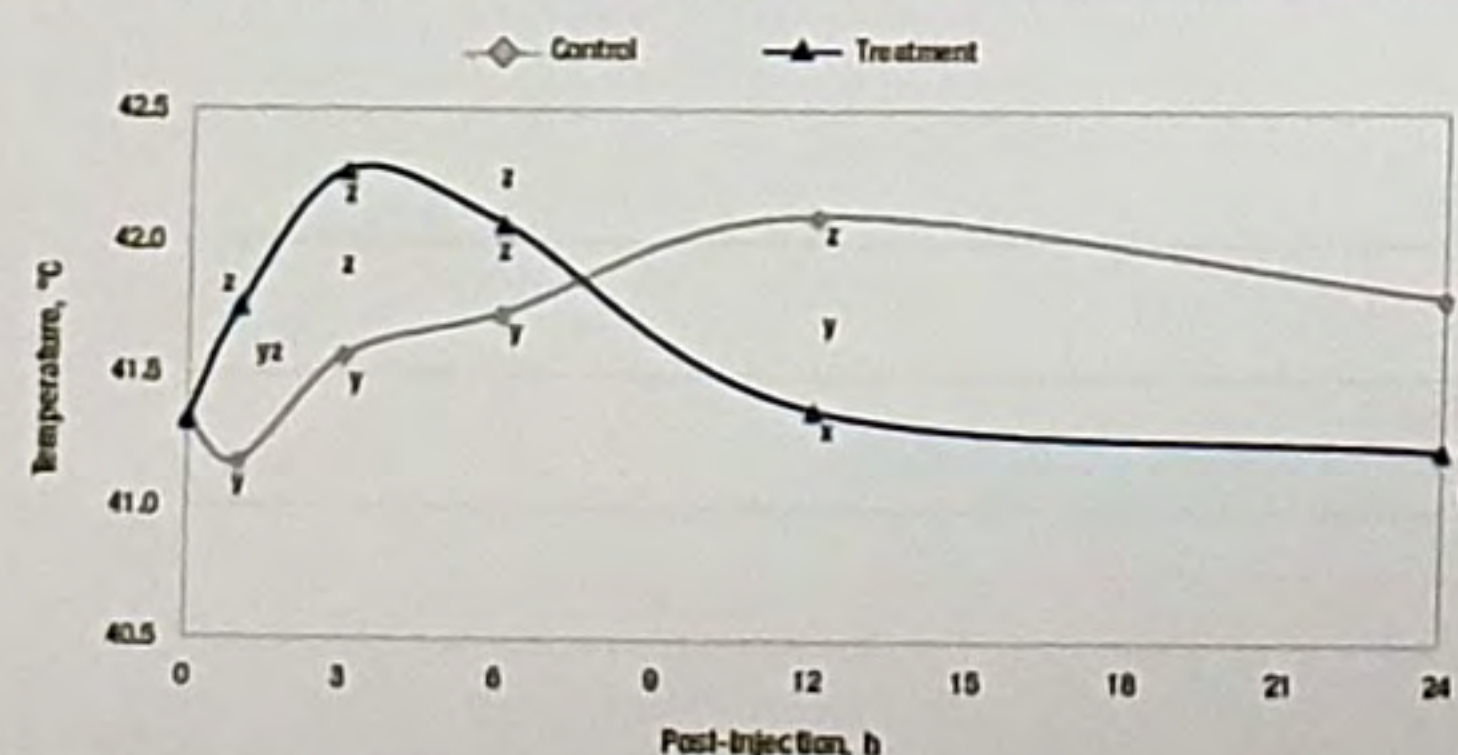
Effect on 17.5 to 65 weeks Layer Performance



Immunity

The immune system has one of the most important function in any living species – actively maintain health by protecting against virus and bacteria that could disease. Trace Minerals play an important role in developing a strong immune defense system.

Rectal Temperatures Of Lavers InJECTED Salmonella Typhimurium LPS^a



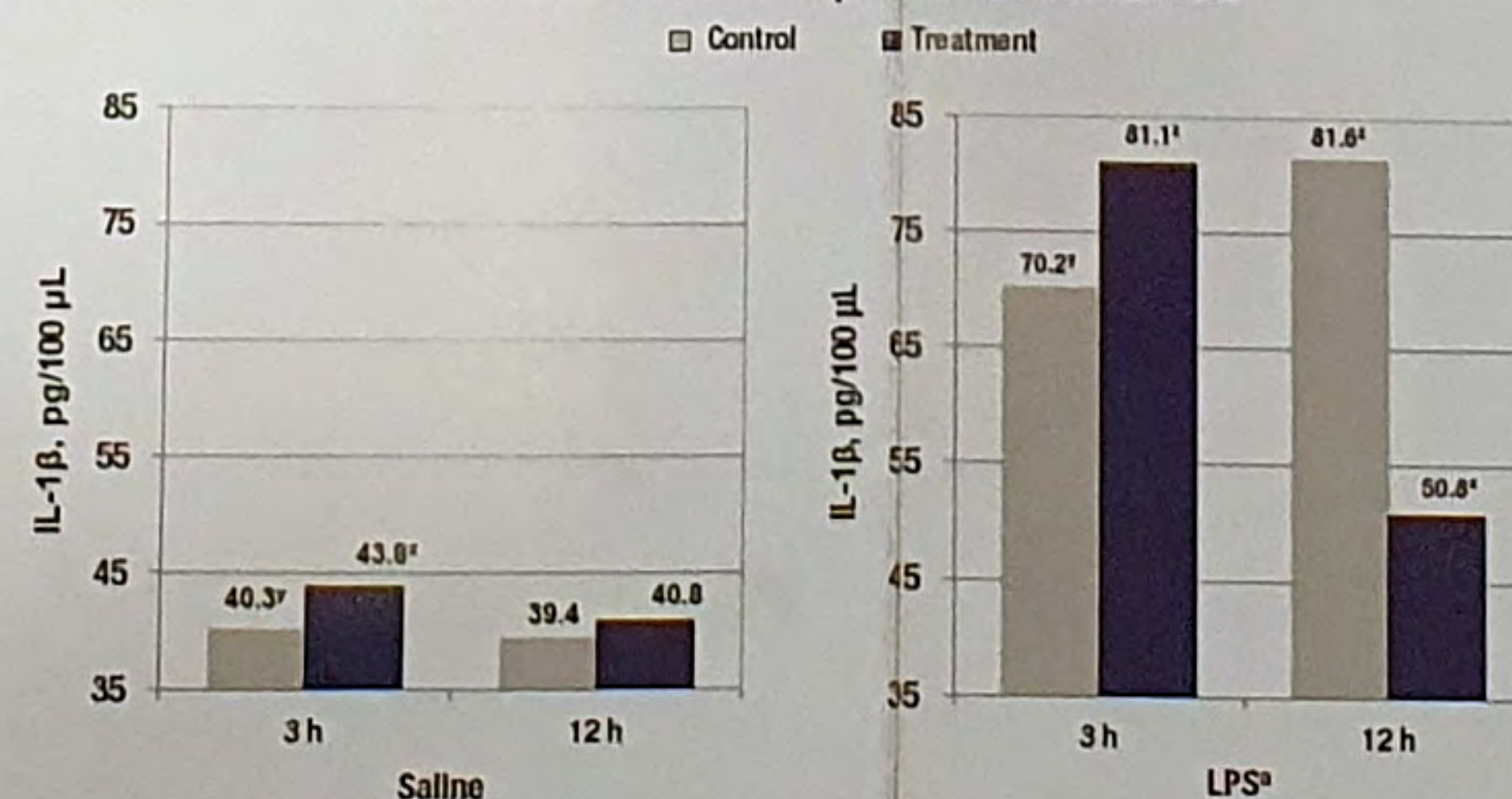
a Lipopolysaccharide: Sigma Chemical, St. Louis, Missouri; 1.0 µg/mL reconstituted in saline water
 b Control, no added Zn; Basal Zn levels: 3 to 8 wk (35 ppm), 9 to 18 wk (31 ppm), 19 to 45 wk (29 ppm) and 46 to 65 wk (31 ppm)
 xyz Within a time period, means lacking a common superscript letter differ, P < 0.05
 Cheng and Guo, 2004. Asian-Aust. J. Anim. Sci. 17:1717

Stress Mitigation

Zinpro has been working to find nutritional solutions using performance trace minerals to help alleviate the negative consequences of heat stress in susceptible animals. Adjusting the nutrition of your broilers can be a more economical strategy than investing in facility structure changes to mitigate the effects of heat stress in poultry operations.

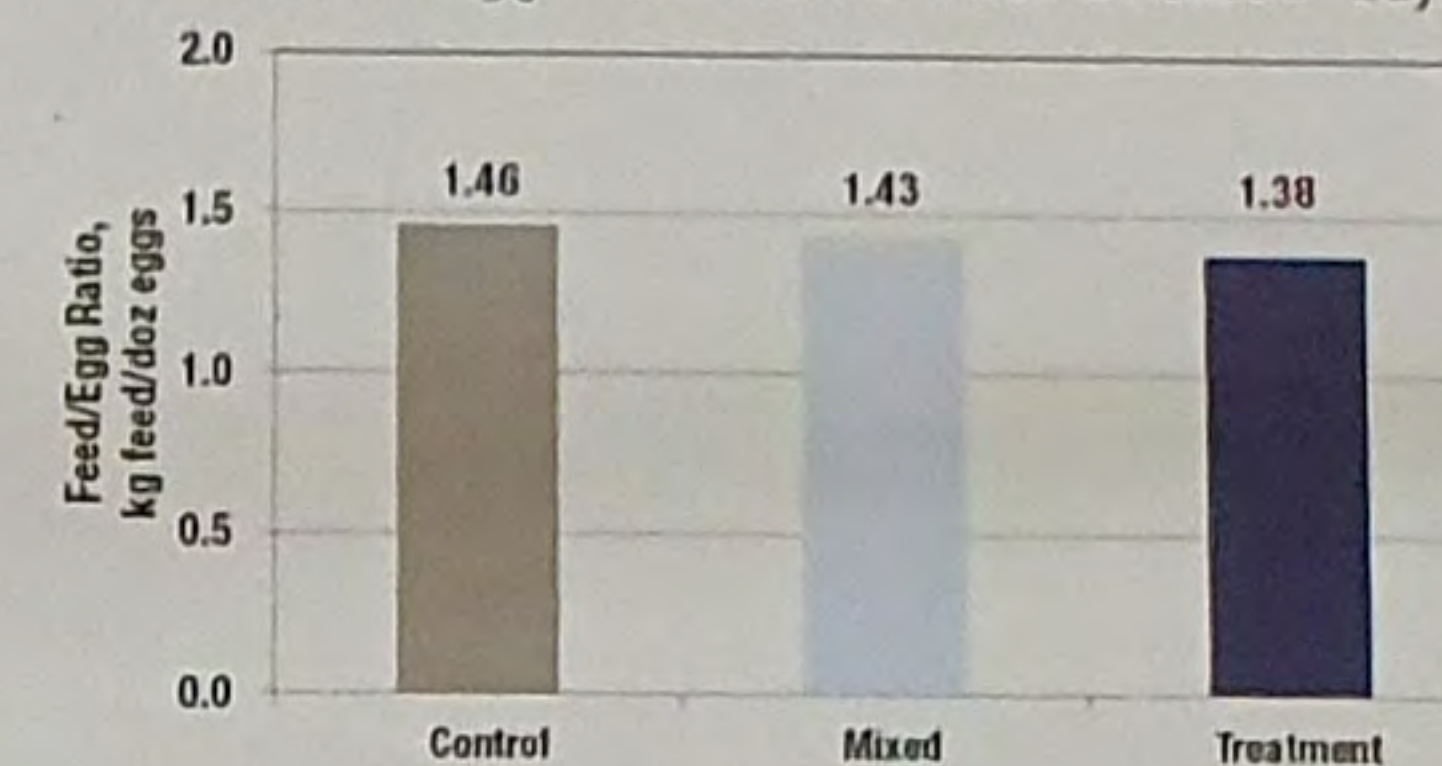


Serum Interleukin-1 β Concentration d5

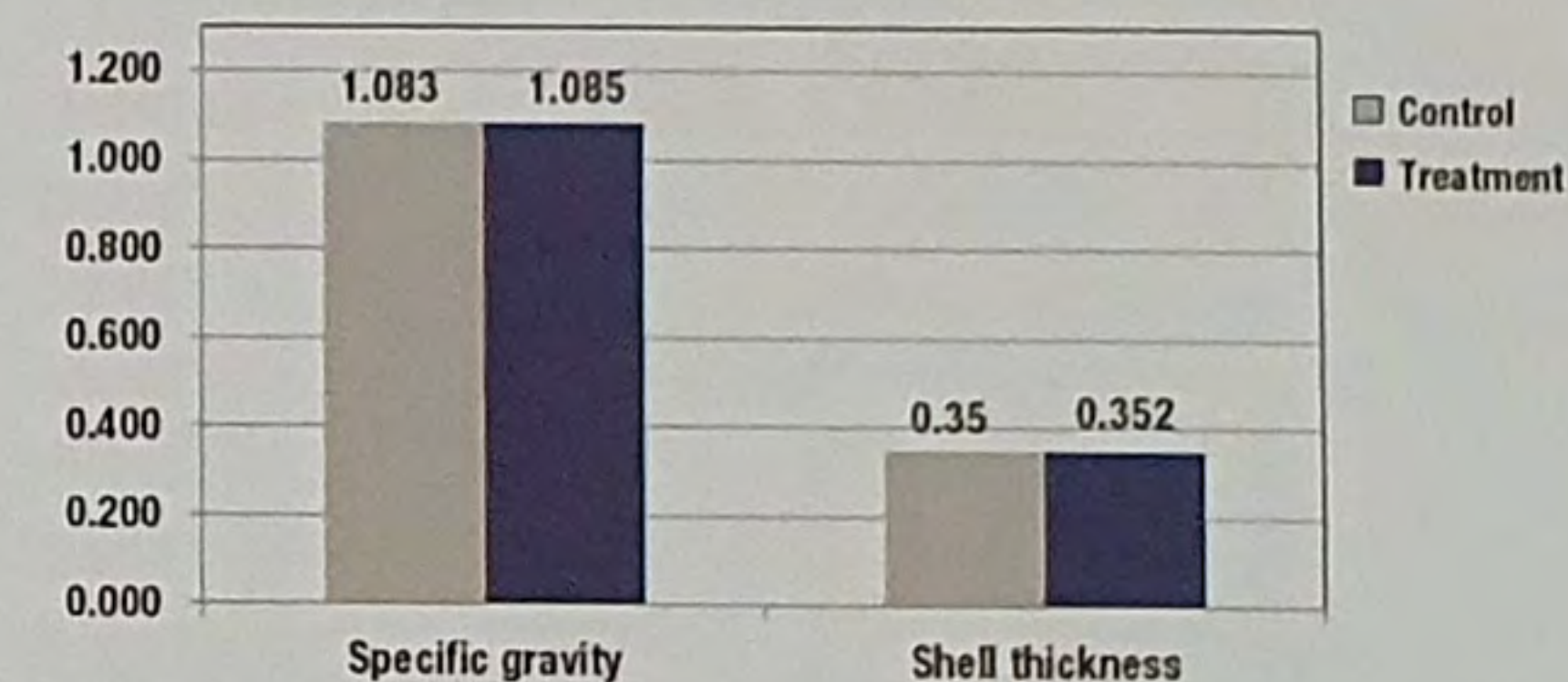


a Lipopolysaccharide: Sigma Chemical, St. Louis, Missouri; 1.0 µg/mL reconstituted in saline water
 xyz Within a challenge and time period, means lacking a common superscript letter differ, P < 0.05
 Cheng and Guo, 2004. Asian-Aust. J. Anim. Sci. 17:1717

Effect on Egg Production of Heat-Stressed^a Layers^b



Effect on Egg Shell Quality of Heat-Stressed^a Layers^b



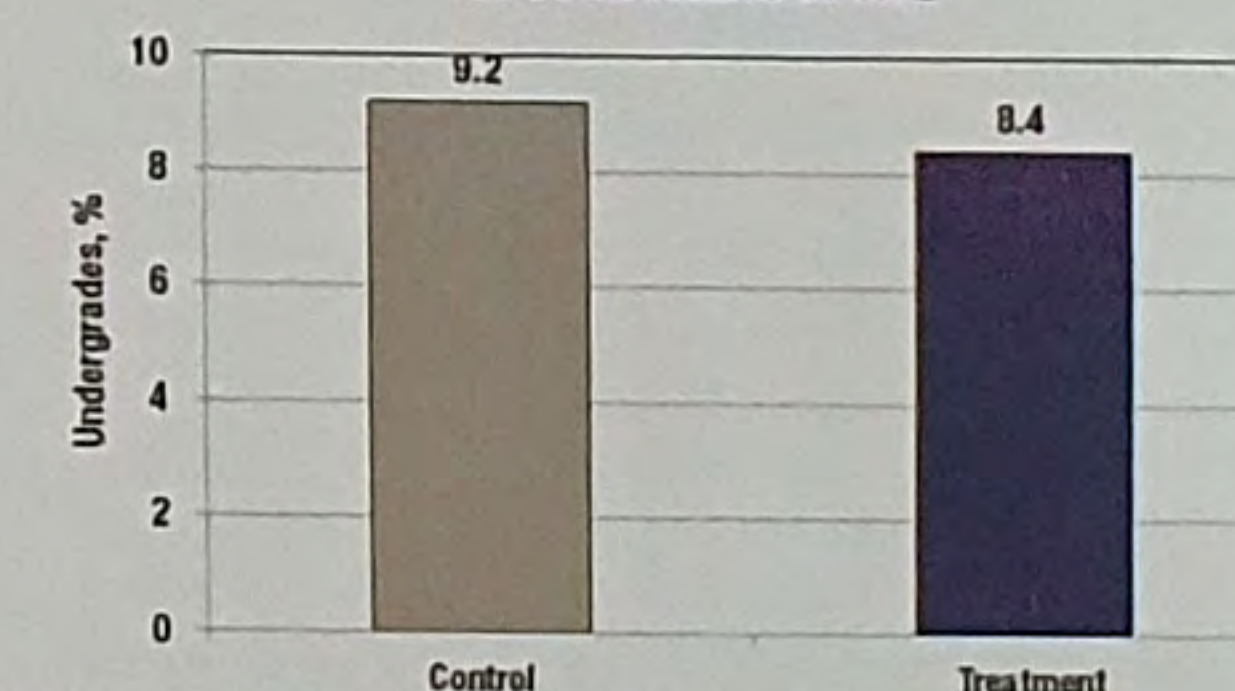
a Trial was conducted in Thailand where temperature averages (high/low) 92/76°F year-round
 b Layer age - 18 to 65 weeks of age

Egg Quality

Egg quality plays an important role in layer performance. Providing trace mineral to layers not only improves their performance but it also helps layers continued producing egg itself and egg shell in the same quality.

Effect on Egg Quality

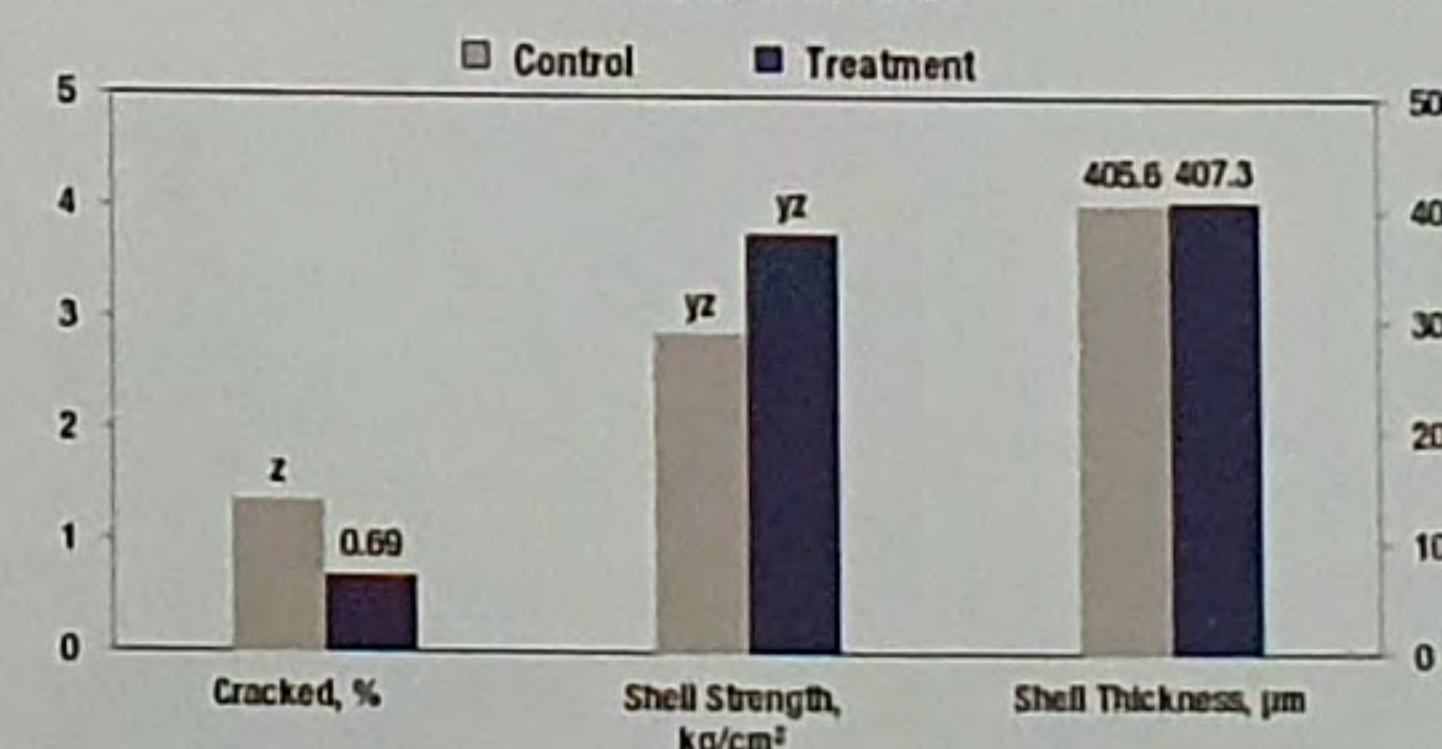
61 TO 65 WEEKS OF AGE^a



a Only time period prior to molt that data were recorded for each layer house

Effect on Percentage Cracked Eggs

59 WEEKS OF AGE



ZINPRO
 PERFORMANCE MINERALS[®]

BiPath-B

Availa® minerals blend



More Than Mineral

Superior Nutrition through superior science your animals deserve the best organic performance trace minerals to support their health and wellness.

BiPath, our performance mineral blend is backed by decades of scientific proven research to deliver the most nutrients at all stages of life.

Each kg will deliver

Zinc (Zn)	80 grams
Manganese (Mn)	80 grams
Copper (Cu)	8 grams
Iron (Fe)	5 grams
Selenium (Se)	0.35 grams
Iodine (I)	2 grams
Chromium (Cr)	0.20 grams
Carrier add to	1,000 grams

Directions for Use

Broiler feed at the rate of 500 - 1,000 grams per metric ton of complete diet.

Breeder feed at the rate of 1,000 grams per metric ton of complete diet.

Layer feed at the rate of 350 - 500 grams per metric ton of complete diet.

Storage

The material should be stored in a clean dry place and not exposed to extreme heat or high humidity for extended periods of time.

Net Weight 25kg (55.1lbs)