



Silver Bullet Agricultural Case Study Texas Panhandle Grow Yard

Raising healthy, productive feedlot cattle is a challenge for any producer, having to do so with cattle that are not healthy when they were purchased can be an overwhelming endeavor. Such is the challenge facing the managers of a Texas Panhandle Grow Yard. The operators purchased high risk cattle at a discounted rate with the idea that they could transform the health of the herd and make additional profits.

One of the most important elements in raising healthy feedlot cattle is clean water. Using the best quality of water available can contribute to optimal health and greater return on the investment made when purchasing the cattle.

To prove this hypothesis, a 110 day trial was conducted with water treated with the Silver Bullet Water Treatment System. The study examined the health, overall weight gain and production of the livestock on this grow yard when water treated with the Silver Bullet was consumed by the cattle.

The study included 469 heifer head of cattle who were at risk for high mortality and morbidity. After being purchased from the same point of origin and transported to the grow yard, the heifers were randomly sorted off trucks, and alternately put into two groups and then into holding pens.

The heifers in both groups received the same processing procedures throughout the trial;



vaccinations, feed rations, growth environments and number of days on feed were identical. **The only variable between the two groups was the water they received.** The control group received unrestricted access to untreated water, the other group received unrestricted access to water treated by the Silver Bullet Water Treatment System.

110 DAY TRIAL ON SILVER BULLET WATER TREATMENT SYSTEM

The outcome of the study reflected an increase in overall weight of the cattle, increased overall consumption and an increase in total price per

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	Non-Treated Water	Water Treated with Silver Bullet
Average Weight In	431 lb	431 lb
Average Weight Out	668 lb	687 lb
Average Daily Gain	1.95 lb	2.18 lb
Dry Matter Consumption	13.4 lb	14.49 lb
YTD CPH/Day	\$1.4105	\$1.3073

Difference in revenue: \$9,000

Difference in net profit: \$4,877

\$20.82/HD/increase in total price per head

\$0.1892/HD/increase in price per head per day

Cost of Silver Bullet: \$0.0046/HD/Day

The study started 1/14/2014 and ended 4/24/14 (110 days)



Water is Life



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head of \$20.82 for the cattle treated with Silver Bullet water at a cost of \$0.0046 cents per head.

CONCLUSION

The study demonstrated that treating the water with Silver Bullet so that bacteria is controlled and the water source for the cattle is scale free, increased the value of the herd. The Silver Bullet group consumed more feed and gained more than the control group which consumed untreated water, with an increased gain of 19 pounds. The overall increase in the price received for the cattle in the Silver Bullet group was more than \$20 per head with a total increase in price upon the sale of the cattle of \$9,000. It can be assumed that the cattle benefited from healthy, clean water with low bacteria counts and that it contributed to an increase in the production of the herd.

ABOUT SILVER BULLET FOR LIVESTOCK DRINKING WATER

“We deploy our water conditioning technologies that save water, energy and life to positively impact the world.”

At Silver Bullet, we take our mission to heart. By treating water better, we create a healthy water environment for livestock which ultimately helps feed the world. Our innovative water treatment system provides a safe and highly efficient non-toxic biocide which reduces scaling and biofilm buildup. Sickly livestock presents a two-fold cost in both reduced production as well as the cost for care. By killing bacteria in the drinking water, farmers are able to provide cleaner water for their livestock, greatly reducing the chance of disease spread through water shared by many animals.

Validated by a Colorado State University study (*Effects of Silver Bullet Treated Water on Performance, and Somatic Cell Counts in Lactating Dairy Cows*, W.R. Wailes and M. G. Dib, Animal Sciences Department, Colorado State University, Fort Collins, CO, 2012), drinking clean water leads to healthier and more productive livestock, allowing farmers to do more with less. Silver Bullet offers an easy and practical solution to healthy livestock drinking water. Our system generates an oxygenated gas that forms hydroxyl radicals when injected into water. Hydroxyl radicals kill waterborne bacteria and also generate a hydrogen peroxide residual as a lasting non-toxic biocide which remains in the water system, reducing cross contamination. Our proprietary process can remove and prevent scale and biofilm buildup leaving water systems operating more efficiently allowing livestock free access to water without clogged water systems.

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