



# Silver Bullet Agricultural Case Study #2

## Texas Panhandle Grow Yard



A Texas Panhandle Grow Yard has completed a second study to compare cattle provided with water treated by Silver Bullet to cattle provided with untreated water. The study lasted 110 days from August 2014 to December 2014.

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

The calves in the study were at high risk for mortality and were randomly sorted into two groups. The control group drank untreated water, and the other group drank water treated by Silver Bullet. Both groups received the exact same processing procedures throughout the study: 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 study included 310 calves randomly split into two groups of 155. The results of the 110 day study showed significant differences between the two groups, with the group drinking water treated

by Silver Bullet ~~at a~~ \* greater daily weight gains, fewer deaths, and nearly \$100 more profit per head.

The average daily weight gain by the control group was 1.353 lbs/day. The Silver Bullet group gained an average of 1.775 lbs/day. This .442 pound difference is equivalent to a 46.42 lb total difference between cattle in the Silver Bullet group compared to the control group over the 110 day study.

The control group experienced a death rate over twice as much that of the Silver Bullet group during the study.

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### 110 DAY STUDY ON SILVER BULLET WATER TREATMENT SYSTEM

	Non-Treated Water	Silver Bullet	Advantage
Heads in	155 Calves	155 Calves	--
Lbs/Day Weight Gain	1.353 lbs	1.775 lbs	+ .422 lbs/day
Dry Feed Consumption	12.26 lbs	12.88 lbs	+ .62 lbs
Feed Conversion	9.07 to 1	7.26 to 1	-1.81 to 1
Cost of Gain	\$1.6689/lb	\$1.2737/lb	-.3952/lb
Cost of Meds/Lb of Gain	\$.2898/lb	\$.1927/lb	-.0971/lb
Profit/Head	-\$89.01/head	+\$9.73/head	+\$98.74/head

Water is Life





The feedlot was losing \$89.01 per head from cattle drinking untreated water. This can be attributed to the poor feed conversion rates, high cost of gain, and high cost of medicine per pound of gain for these cattle. The feedlot earned \$9.73 per head from the cattle drinking Silver Bullet treated water. This is significant as the feedlot lost \$13,796.55 from the control group and earned \$1,508.15 from the Silver Bullet group. This is a \$15,304.70 difference realized in 110 days.

### 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 weight than the control group. Not only did the Silver Bullet cattle eat more and gain more, they were more efficient in converting feed into weight gain. It can be assumed that the steers benefited significantly from consuming clean, healthy water and led to an increase in production from 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.

Water is Life

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