

EFFECT OF CELL-RATE™ ON SEMEN CONCENTRATION AND MOTILITY

The following trial took place at Prairie State Semen in Champaign, IL. The trial took place from July 1, 2006 to September 30, 2006. The purpose of the trial was to measure the effect CELL-RATE™ in maintaining the average dose size over 90 day period of collections.

Three groups were established in this trial with Treatment A receiving 5 grams/hd of CELL-RATE™, Treatment B receiving 10 grams/hd and Control Group receiving no CELL-RATE™. All three groups were fed the same feed outside the inclusion of CELL-RATE™. Each group consisted of 21 Boars. The value of the semen used in this trial was \$30/dose.

The table below provides numbers from the 1st five collections along with numbers from the last five collections. Again, the purpose of this trial was to see if CELL-RATE™ would help maintain the average number of doses per boar.

Test Group	1st 5 Collections Ave Sperm Volume	1st 5 Collections Sperm Counts	1st 5 Collections Ave Doses	Last 5 Collections Ave Sperm Volume	Last 5 Collections Ave Sperm Counts	Last 5 Collections Ave Doses	Diff In Doses	Value Per Collection Per Boar
Treatment A	808	1.53	10.85	867	1.44	10.81	-0.04	\$90
Treatment B	870	1.63	12.71	1112	1.46	14.02	+1.32	\$130.80
Control	1035	1.41	12.72	870	1.31	9.68	-3.04	\$0

Results:

- The control group had a decline in production as they dropped from 12.72 average doses in the 1st five collections to 9.68 average doses in the last five collections. This is a decrease of 3.04.
- Treatment A Group maintained the average doses number (10.85 to 10.81).
- Treatment B Group actually increased the average dose number from 12.71 to 14.02.
- The Value Per Collection for the Treatment B compared to the Control Group is \$130.80 per boar. This number is calculated by taking the Difference in Doses x \$30 value per dose of semen.
- It is evident in this trial that CELL-RATE™ not only helps maintain the average number of doses but it can increase the average number of doses at 10 grams/hd.