



Trial Data Summary

Value Of Feeding Excell To New-Born Holstein Heifer Calves - Birth Through 60 days Of Age

Two calf trials were conducted at a commercial Twin Falls, Idaho calf facility from June 13 to August 25, 2017 to measure weight gain, body frame development and observable health differences.



Trial # 1

50 newborn Holstein calves were split equally into two treatment groups; the Excell group was fed 5 CC of Excell liquid per day in the milk and the control group was fed milk without Excell.

Due to the way calves arrived at the facility, the Excell calves were fed an additional 2.1 days longer than the control group. To account for this extra 2.1 days gain, each calves' total gain was reduced by its ADG X 2.1 days.

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	Average					
	<u>ADG</u>	<u>Total Gain</u>	<u>Adj Total Gain</u>	<u>Length</u>	<u>Height</u>	<u>Days Fed</u>
Excell	1.68	106.62	103.1	28.75	37.77	63.4
Control	<u>1.60</u>	<u>97.7</u>	<u>97.7</u>	<u>26.99</u>	<u>37.12</u>	<u>61.3</u>
Diff	0.09	8.9	5.4	1.76	0.65	2.1
p value	<= .056	<= .048		<=3.2E-07	<= .0017	
% Improvement	5.5%	9.1%	5.6%	6.5%	1.8%	

All parameters tested in trial #1 were significant at the $p \leq .05$ level except ADG which was very close at $p \leq .056$.



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Trial #2

78 newborn Holstein calves split into two groups; 26 animals were fed 5 CC of Excell liquid per day in the milk and the 52 in the control group were fed milk without Excell.

15 animals were removed from the data set due to their 4 or 5 additional days on feed. After their removal, the Excell group averaged 1 additional day fed. To account for this extra 1 day of gain, the total gain of each Excell calf was reduced by one day of its ADG.

	Average					
	ADG	Total Gain	Adj Total Gain	Length	Height	Days Fed
Excell	1.71	104.2	102.5	27.9	37.2	61
Control	<u>1.62</u>	<u>97.5</u>	<u>97.5</u>	<u>26.99</u>	<u>37.1</u>	<u>60</u>
Diff	0.1	6.7	5.0	0.9	0.1	1.0
p value	<.03		<.044	<.0032	<.37	
% Improvement		5.2%	6.8%	5.1%	3.2%	0.2%

All parameters tested were significant at the $p \leq .05$ level except Height which was $p \leq .37$.

Summary:

This was a very well managed calf facility with good nutritional and health programs in place.

In both trials, Excell increased average daily gain resulting in significant improvements in total gain (5.6% and 5.2%) in trial one and two respectively over the control.

Frame development (length) was also significant in the Excell group at 1.76 and .9 inches longer in trial one and two respectively and height was significantly greater in trial one.

No significant health differences were observed.

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