

# BIOAKTIV Far East

## Australia: BioAktiv Increases ADG, Reduces Cost and Improves FCR at Elders



Elders manager Lee Gould reported on the findings of a commercial trial they did in 2003. They fed a test group of 43 cattle 70 days and 105 cattle 105 days standard feed with BioAktiv Animal Feed and drinking water with BioAktiv Salis, and a control group of 42 cattle 84 days and 54 cattle 105 days standard feed and drinking water without the additives. The average number of feeding days of the test and control groups were hence 87.5 and 94.5 respectively.

	BioAktiv Animal Feed + Salis		Control	
	Number of cattle	Number of days	Number of cattle	Number of days
	43	70	42	84
	105	105	54	105
Total:	148	175	96	189
Average (÷2):		87.5		94.5

The results of the trial were as follows:

Parameter	Formula	BioAktiv	Control	Difference
Number of cattle	A	148	96	
Average number of days	B	87.5	94.5	
Starting weight (kg)	C	478.18	509.99	
Average dress weight (kg)	D	369.09	364.80	4.29kg or 1.18% higher*
Live weight @55% yield (kg)	E	671.00	663.00	
Live weight gain (kg)	F=E-C	192.82	153.01	
Average daily gain (kg)	G=F/B	2.20	1.62	0.58kg or 36% higher
Feed intake (kg)	H	232,033	144,215	
Feed cost @\$0.30/kg	I=H×0.30	\$69,609.90	\$43,264.50	
Cost per head	J=I/A	\$470.34	\$450.67	
Cost per head per day	K=J/B	\$5.38	\$4.77	
Cost/kg live weight gain	L=K/G	\$2.44	\$2.95	-\$0.50 or -17% lower
Daily feed intake/herd (kg)	M	1,325.90	763.04	
Daily feed intake/head (kg)	N=M/A	8.96	7.95	
Feed conversion ratio	O=N/G	4.07	4.91	-0.84 or -17.2% <sup>1</sup>

\* Carcass yield: 1.18% higher dress-out with BioAktiv

[\[Original report\]](#)

<sup>1</sup> Indicated as 20.7% (0.84/4.07) in the original report.

## Discussion

It is more accurate to use weighted average instead of arithmetic mean for the average number of feeding days. The revised results using weighted average number of feeding days are as follows:

Parameter	Formula	BioAktiv	Control	Difference
Number of cattle	A	148	96	
Average number of days	B	94.8	95.8	
Starting weight (kg)	C	478.18	509.99	
Average dress-out weight (kg)	D	369.09	364.80	4.29kg or 1.18% higher*
Live weight @55% yield (kg)	E	671.00	663.00	
Live weight gain (kg)	F=E-C	192.82	153.01	
Average daily gain (kg)	G=F/B	2.03	1.60	0.44kg or 27% higher
Feed intake (kg)	H	232,033	144,215	
Feed cost @\$0.30/kg	I=H×0.30	\$69,609.90	\$43,264.50	
Cost per head	J=I/A	\$470.34	\$450.67	
Cost per head per day	K=J/B	\$4.96	\$4.70	
Cost/kg live weight gain	L=K/G	\$2.44	\$2.95	-\$0.50 or -17% lower
Daily feed intake/herd (kg)	M	1,325.90	763.04	
Daily feed intake/head (kg)	N=M/A	8.96	7.95	
Feed conversion ratio	O=N/G	4.41	4.98	-0.57 or -11.5%