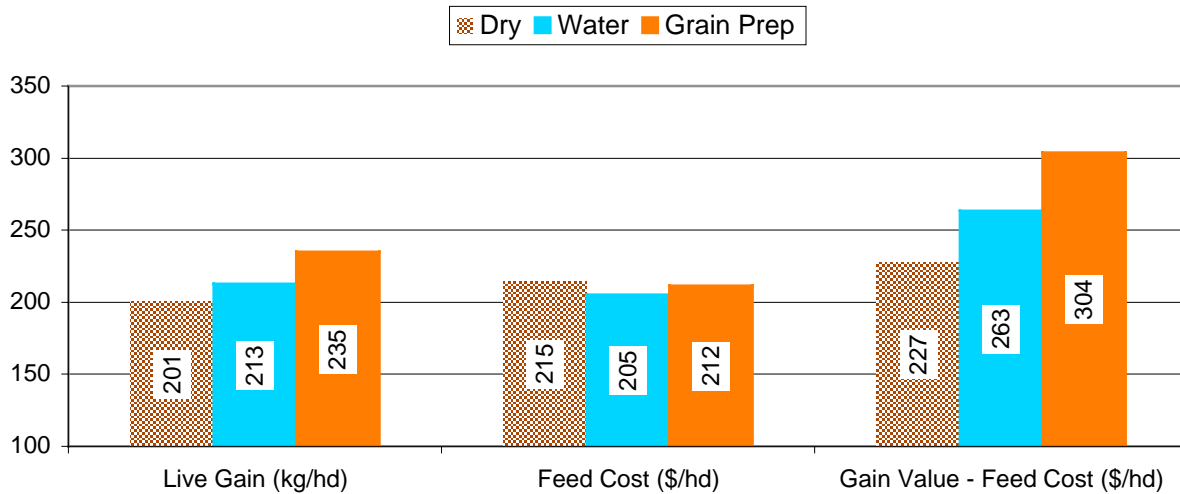




## Grain Prep® Processing Aid

### The Effect of Barley Processing on Cattle Feeding\*



### Return on Grain Prep Processing Aid Investment

Increased digestibility of Grain Prep Processing Aid tempered barley produced a 22 kg gain at a feed cost (including Grain Prep Processing Aid) of \$7.00 per head, a 5.9:1 ROI. No other surfactant can do this.

### Summary of Research:

Research has shown three steps in processing barley for cattle feed increase its *in vivo* digestibility by 33%, which in turn increases live weight, warm carcass weight, feed efficiency and rib eye surface area, when compared to feeding either dry rolled barley or barley tempered with just water. The three steps are:

- 1) Precisely adjust the moisture content of the barley before rolling to  $20 \pm 0.5\%$  using the patented Grain Prep Auto Delivery System® (Reg. U.S. Pat. Off. No. 5,194,275).
- 2) Use a Grain Prep Processing Aid – water solution to adjust barley moisture content.
- 3) Precisely control the processing index (PI) of processed barley to  $0.7 \pm 0.1$ . (PI is the ratio of the rolled grain bulk density to the unprocessed grain bulk density.)

Tempering Process	Dry	Water	Grain Prep	SEM
Moisture Content (%)	9	20	20	
ADG (kg/hd/day)	0.97 <sup>a</sup>	1.06 <sup>b</sup>	1.13 <sup>b</sup>	0.04
Feed Efficiency (F/G)	8.22 <sup>c</sup>	7.41 <sup>b</sup>	6.93 <sup>a</sup>	0.16
Warm Carcass (kg)	305 <sup>a</sup>	313 <sup>ab</sup>	330 <sup>c</sup>	6.04
Fat (mm)	13 <sup>f</sup>	14 <sup>g</sup>	12 <sup>e</sup>	1.18
Rib Eye (cm <sup>2</sup> )	78 <sup>b</sup>	75 <sup>ab</sup>	83 <sup>c</sup>	2.13

<sup>a,b,c,d</sup> Numbers in a row having different superscripts differ (P<0.05)

<sup>e,f,g</sup> Numbers in a row having different superscripts differ (P<0.06)

\* Data used in calculations: Value of Feed = \$130/metric ton; Live Weight Value = \$2.20/kg; Grain Prep surfactant cost = \$1.50/metric ton.