



**Feed 5 grams** of Zinpro Availa Zn throughout the finishing period

**+10 lbs**  
**CARCASS WEIGHT**

# Zinpro® Availa® Zn

## Increase Carcass Weight

### BACKGROUND

A pooled statistical analysis examined the growth performance and carcass responses associated with feeding supplemental Zn from Zinpro® Performance Minerals® (ZPM; ZINPRO® zinc methionine or Zinpro Availa Zn) in finishing cattle diets. The analysis represents 249 pens from nine studies conducted between 2001 and 2016 at university and commercial feedlot facilities.

- All studies evaluated Zn from ZPM vs. conventional inorganic Zn.
- Variables analyzed included both live and carcass-adjusted feedlot performance, carcass merit, and liver abscess incidence.
- Each pen within study was weighted to calculate mean effect size. More precise studies were assigned a greater weight. This precision was influenced by a greater number of pens, less variation between pens, or both.

### OVERVIEW

Study	Location	Year	DOF	Head	ZPM (Source)	ZPM (ppm)
1	Texas	2001	152	270	Both	30   60
2	Kansas	2002	215	1,959	ZINPRO	47   103
3	Texas	2004	176	180	Availa Zn	35
4	Kansas	2006	181	2,015	ZINPRO	42   85
5	Texas	2011	154	2,879	ZINPRO	38
6	Texas	2011	165	1,798	ZINPRO	36
7	Alberta	2011	253	4,542	Availa Zn	39
8	Iowa	2014	87	321	Availa Zn	60
9	Iowa	2016	81	132	Availa Zn	60   90

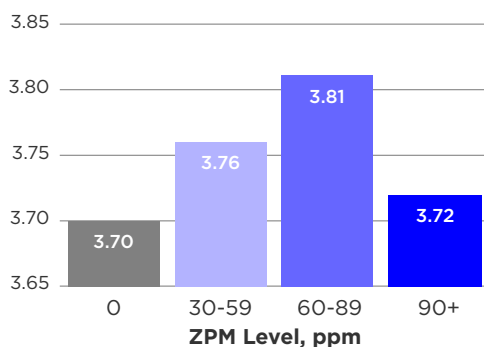
## EFFECT OF ZPM FEEDING RATE ON PERFORMANCE AND CARCASS TRAITS OF FEEDLOT CATTLE

Item	ZPM rate, ppm				SEM	Contrasts <sup>a</sup>
	0	30 - 59	60 - 89	90 +		
Pens, n	113	57	57	22		
Initial BW, lb	748	744	748	748	3.6	NS
DM Intake, lb	21.8	22.0	22.0	21.9	0.56	NS
<i>Carcass-Adjusted Performance<sup>b</sup></i>						
<b>Final BW, lb</b>	<b>1341</b>	<b>1346</b>	<b>1355</b>	<b>1345</b>	<b>32.3</b>	<b>Q</b>
<b>Daily Gain, lb</b>	<b>3.70</b>	<b>3.76</b>	<b>3.81</b>	<b>3.72</b>	<b>0.180</b>	<b>Q</b>
Feed:Gain	5.85	5.81	5.76	5.85	0.229	Q
Dressing Percent, %	63.65	63.86	63.84	63.59	0.453	Q
<b>Hot Carcass Weight, lb</b>	<b>856</b>	<b>860</b>	<b>866</b>	<b>859</b>	<b>18.8</b>	<b>Q</b>
<b>USDA Prime + Choice, %</b>	<b>46.3</b>	<b>48.6</b>	<b>49.0</b>	<b>52.3</b>	<b>0.09</b>	<b>L</b>
Yield Grade, calculated	3.08	3.05	3.15	3.23	0.095	L
Total Liver Abscesses, %	10.3	10.0	7.0	9.5	1.98	Q, C
A+ Liver Abscesses, %	3.6	2.9	1.6	3.5	0.81	Q, C

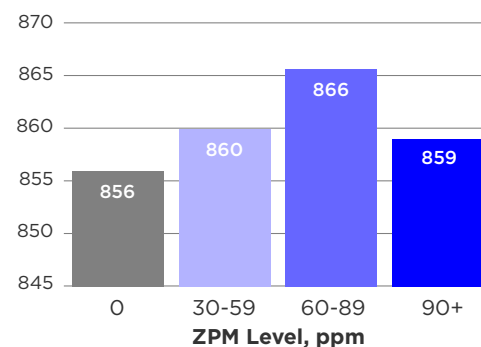
<sup>a</sup> Significant:  $P \leq 0.10$  (NS = not significant; L = linear; Q = quadratic; C = cubic).

<sup>b</sup> Carcass-adjusted final weight = (average pen HCW) ÷ average dressing percent across all pens within study.

**Carcass-adjusted ADG, lb/d**  
(Quadratic  $P = 0.04$ )



**Hot Carcass Weight, lb**  
(Quadratic  $P = 0.01$ )



### SUMMARY

- Zinpro Availa Zn supplementation improved ADG, Feed:Gain, and Final BW on a carcass-adjusted basis ( $P \leq 0.10$ )
- Feeding Zinpro Availa Zn increased dressing percentage and hot carcass weight ( $P = 0.01$ )
- Optimum performance response was realized at a feeding rate of 5 grams of Zinpro Availa Zn throughout the finishing period
- Feeding 5 grams of Zn from Zinpro Availa Zn is a reliable method to enhance the performance of feedlot cattle

### Economics<sup>a</sup>

- Supplementing Zinpro Availa Zn at a rate of 5 grams throughout the finishing period resulted in 10 lb of additional HCW
- This represents a Net Return of more than \$26.00 per head and an ROI of 7 to 1

<sup>a</sup> Economics are based on a 160 DOF, a 63.50% yield, and \$190/cwt fed cattle price.



For more information:  
contact your Zinpro  
representative or visit  
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