



# Feeding Zinpro® Availa® 4 During Late-Gestation Optimizes Beef Calf Productivity

## Study Objective



Evaluate effects of supplementing Zinpro Availa 4 to beef cows during late gestation on offspring performance and health from birth to harvest.



## Results Summary

Zinpro Availa 4 supplemented to beef cows during the last trimester of pregnancy improved offspring performance:

- Heavier weights at weaning
- Healthier during transition in growing period
- Higher carcass weights

## Animals



84 multiparous, nonlactating, pregnant Angus x Hereford cows

## Treatments

**Inorganic:** No supplemental Zn, Mn, Cu, and Co

**Sulfates:** 360 mg Zn, 200 mg Mn, 125 mg Cu, and 12.5 mg Co

**Zinpro Availa 4:** 360 mg Zn, 200 mg Mn, and 125 mg Cu from amino acid complexes, and 12.5 mg Co from cobalt

## Study Duration



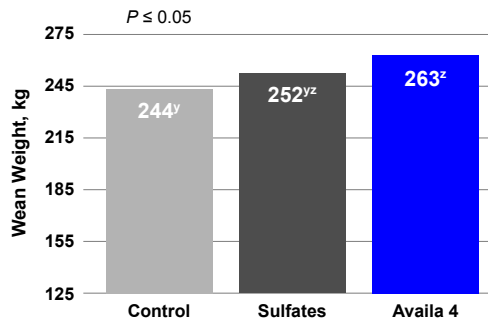
End of second trimester until calving (~94 d)

## Location

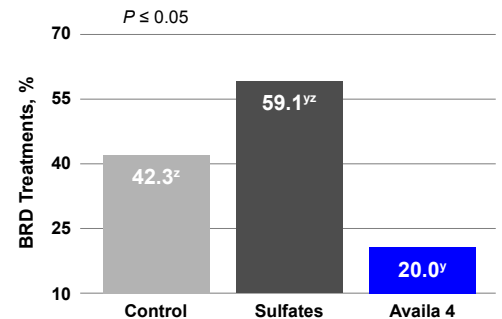


Oregon State University Burns, OR, USA

### Improved 205 d Calf Adjusted Wean Weight

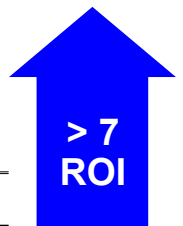


### Decreased Calf BRD Treatments



## Zinpro Availa 4 Supplementation to Beef Cows has Positive ROI

Item	Unit	Sulfate	Availa 4
205 d Adjusted Wean Weight	kg	252	263
Calf Cost	\$/kg	\$2.75	\$2.75
Upgrade from Sulfates to Availa 4	\$/cow/d	—	\$0.04
Feeding Duration	d	100	100
<b>ROI</b>			<b>7.56</b>



Marques, R. S., R. F. Cook, M. C. Rodrigues, B. I. Cappellozza, R. R. Mills, C. K. Larson, P. Moriel, and D. W. Bohnert. 2016. Effects of organic or inorganic cobalt, copper, manganese, and zinc supplementation to late-gestating beef cows on productive and physiological response of the offspring. *J. Anim. Sci.* 94:1215-1266.

