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Effects of Compudose® and Ralgro® implants and Tramisol® injectable wormer on the performance of grazing yearling steers.

Abstract
Compudose and Ralgro improved (P<.05) average daily gain 15% over non-implanted controls. No difference was observed between the two implants. Tramisol injectable wormer increased (P<.05) average daily gain 8% over non-wormed cattle.

Keywords
Cattlemen's Day, 1983; Report of progress (Kansas State University. Agricultural Experiment Station); 427; Beef; Implants; Performance; Steers

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This work is licensed under a Creative Commons Attribution 4.0 License.
Effects of Compudose® and Ralgro® Implants and Tramisol® Injectable Wormer on the Performance of Grazing Yearling Steers

Scott Laudert, Charles Sauerwein and Gene Harris

Summary

Compudose and Ralgro improved (P<.05) average daily gain 15% over non-implanted controls. No difference was observed between the two implants. Tramisol injectable wormer increased (P<.05) average daily gain 8% over non-wormed cattle.

Experimental Procedure

Trial 1. Seventy-four native straightbred and crossbred yearling steers averaging 713 lbs were randomly allotted by breed to the following treatments: 1) control (no implant), 2) Ralgro implants, or 3) Compudose implants. All steers were individually weighed at the beginning (June 2) and end of the 124 day trial. The cattle grazed the same native grass pasture on the Wiley McFarland Ranch, Cimarron, KS.

Trial 2. Thirty-eight 452 lb yearling Angus steers from Utah were randomly allotted to Ralgro or Compudose implant groups, with half of each group receiving Tramisol injectable wormer at the recommended dose. Individual weights were taken at the beginning (June 7), and 85 and 190 days later. The steers grazed the same native range at the Larry Meyers Ranch, Meade, KS.

Data from both trials were analyzed by Least Square Analysis of Covariance to remove the effects of differences in initial weight.

Results

In trial 1, implanting with either Ralgro or Compudose improved (P<.05) weight gain an average of 15% over controls (Table 31.1), with the difference between implants approaching significance (P = .08).

1 Appreciation is extended to Wiley McFarland, Cimarron, KS and Larry Meyers, Meade, KS for supplying cattle and facilities, Elanco Products Co. and International Minerals and Chemical Corp. for supplying implants and American Cyanamid Co. for supplying Tramisol.

2 Southwest Area Extension Livestock Specialist.

3 Gray County Extension Agricultural Agent.

4 Meade County Extension Agricultural Agent.
In trial 2, daily weight gains of Compudose and Ralgro implanted steers were similar throughout the trial (Table 31.2). Two of 18 Compudose implants were lost. Tramisol injectable wormer increased (P<.05) daily gain 8% (Table 31.3), resulting in 19 lbs more gain during the grazing season. Sixty-five percent (12 lbs) of this benefit occurred during the first 85 days.

Table 31.1. Response of Yearling Steers Grazing Native Range to Ralgro and Compudose Implants -- Trial 1

<table>
<thead>
<tr>
<th>Treatment</th>
<th>No. steers</th>
<th>Initial weight lbs</th>
<th>Least Squares Means, lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Final weight</td>
</tr>
<tr>
<td>Control</td>
<td>24</td>
<td>719</td>
<td>901&lt;sup&gt;a&lt;/sup&gt;</td>
</tr>
<tr>
<td>Ralgro</td>
<td>26</td>
<td>709</td>
<td>920&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td>Compudose</td>
<td>24</td>
<td>711</td>
<td>938&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<sup>a,b</sup> Means with different superscripts differ (P<.05).

Table 31.2. Response of Yearling Steers Grazing Native Range to Ralgro and Compudose Implants -- Trial 2

<table>
<thead>
<tr>
<th>Treatment</th>
<th>No. steers</th>
<th>Initial weight lbs</th>
<th>Least Squares Means, lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Initial 85 Day ADG</td>
</tr>
<tr>
<td>Compudose</td>
<td>18</td>
<td>459</td>
<td>1.71</td>
</tr>
<tr>
<td>Ralgro</td>
<td>20</td>
<td>444</td>
<td>1.75</td>
</tr>
</tbody>
</table>

Table 31.3. Response of Yearling Steers Grazing Native Range to Tramisol Injectable Wormer -- Trial 2

<table>
<thead>
<tr>
<th>Treatment</th>
<th>steers</th>
<th>Initial weight lbs</th>
<th>Least Squares Means, lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Initial 85 Day ADG&lt;sup&gt;a&lt;/sup&gt;</td>
</tr>
<tr>
<td>Control</td>
<td>19</td>
<td>443</td>
<td>1.66</td>
</tr>
<tr>
<td>Tramisol</td>
<td>19</td>
<td>460</td>
<td>1.80</td>
</tr>
</tbody>
</table>

<sup>a</sup> Means within this column differ, P = .06.
<sup>b</sup> Means within this column differ (P<.05).