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The effect of implants on gain of heifers grazing native grass

Abstract
Three hundred-ninety crossbred heifers were allotted randomly to one of three implant treatments: 1) Implus- H®, 2) Synovex-H®, and 3) Ralgro®. The heifers grazed native grass pastures for 122 days, stocked at 4 acres per head. The heifers receiving the Implus-H tended to gain faster (P<.12) than the Ralgro heifers. No difference in gain occurred between the Implus-H and Synovex-H heifers.

Keywords
Cattlemen's Day, 1995; Kansas Agricultural Experiment Station contribution; no. 95-357-S; Report of progress (Kansas State University. Agricultural Experiment Station and Cooperative Extension Service); 727; Beef; Implant; Grazing cattle; Native grass

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Cattlemen's Day 1995

THE EFFECT OF IMPLANTS ON GAIN OF HEIFERS GRAZING NATIVE GRASS

F. K. Brazle and D. L. Cook

Summary

Three hundred-ninety crossbred heifers were allotted randomly to one of three implant treatments: 1) Implus-H®, 2) Synovex-H®, and 3) Ralgro®. The heifers grazed native grass pastures for 122 days, stocked at 4 acres per head. The heifers receiving the Implus-H tended to gain faster (P<.12) than the Ralgro heifers. No difference in gain occurred between the Implus-H and Synovex-H heifers.

(Key Words: Implant, Grazing Cattle, Native Grass.)

Introduction

Yearling cattle that graze native bluestem grass may be on pasture longer than the normal implant payout. The normal grazing season on native grass is 125 to 150 days. These cattle may graze in large pastures that are not equipped with catch pens and chutes to reimplant them. Therefore, the object of this study was to compare the effects of three implants on gains of grazing heifers for a 120- to 125-day grazing season on native bluestem grass.

Experimental Procedures

British × Continental crossbred heifer calves were purchased in December and January and were not implanted until time for native grass in April. The heifers had been selected for uniformity from a larger group and were allotted randomly by assigning every third heifer down the chute to each treatment. The implant treatments were: 1) Implus-H® implant, 2) Synovex-H® implant, and 3) Ralgro® implant injected in mid 1/3 of the ear.

The heifers were weighed individually on April 7 and 8 and August 9 and 10 in the morning. They grazed burned native bluestem grass pastures and were stocked at 4 acres per head. The heifers had access to a free-choice salt-mineral mixture containing chlortetracycline (350 mg/animal/day).

Results and Discussion

Results of implant effects on gains of heifers are shown in Table 1. Heifers implanted with Implus-H showed a trend (P<.12) toward improved ADG for 122 days compared to heifers implanted with Ralgro. This trend in results most likely was a function of the length of time that the implants were at a desired payout level. Ralgro implants have an expected payout period of 90 days, whereas the payout period for the other two implants is longer. No difference in ADG occurred between Implus-H and Synovex-H implanted heifers.

1Sincere appreciation is expressed to Mike Collinge, Hamilton, Kansas for providing cattle and facilities and to Ivy Laboratories, Overland Park, Kansas for financial support.
2Extension Livestock Specialist, Southeast Kansas.
3Ivy Laboratories, Inc., Overland Park, Kansas.
Table 1. The Effect of Implants on Gain of Heifers Grazing Native Grass Pastures

<table>
<thead>
<tr>
<th>Item</th>
<th>Implus-H</th>
<th>Synovex-H</th>
<th>Ralgro</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. heifers</td>
<td>128</td>
<td>128</td>
<td>129</td>
</tr>
<tr>
<td>Starting wt., lb</td>
<td>486</td>
<td>487</td>
<td>487</td>
</tr>
<tr>
<td>ADG, lb</td>
<td>1.78&lt;sup&gt;a&lt;/sup&gt;</td>
<td>1.77&lt;sup&gt;b&lt;/sup&gt;</td>
<td>1.72&lt;sup&gt;c&lt;/sup&gt;</td>
</tr>
<tr>
<td>Days</td>
<td>122</td>
<td>122</td>
<td>122</td>
</tr>
</tbody>
</table>

<sup>a</sup>Means in the same row with unlike superscripts are different (P < .12).