



173-Day Performance-Based Initial Heifer Implant Followed with Revalor[®]-200 as Terminal Implant

Trial protocol consisted of:

- Nebraska trial locations
- 1,405 heifers, 6 pens per treatment, 3 treatments, approximately 80 head per pen
- Revalor[®]-IH (trenbolone acetate and estradiol), Revalor-H, and Revalor-200 given on day 0
- Revalor-200 re-implanted approximately 84 days prior to harvest
- 173 days on feed
- Heifers were boosted with Vista[®] 3 VL5 at re-implant

Table 1. Performance of heifers initially implanted with either Revalor-IH, Revalor-H, or Revalor-200, and re-implanted with Revalor-200 84 days pre-harvest.

Item	Revalor-IH/ Revalor-200	Revalor-H/ Revalor-200	Revalor-200/ Revalor-200	p-value
Pens	6	6	6	
Cattle	473	466	466	
Initial shrunk weight, lb	622	619	624	0.74
DMI, lb/d	21.4	21.1	21.4	0.14
Deads-in – live basis				
Final shrunk weight, lb	1166	1195	1173	0.35
ADG, lb/d	3.31	3.44	3.33	0.44
F:G	6.45	6.13	6.41	0.27
Deads-out – live basis				
Final shrunk weight, lb	1248	1246	1252	0.73
ADG, lb/d	3.64	3.64	3.64	0.95
F:G	5.88	5.81	5.85	0.28
Carcass adjusted live performance				
Final weight, lb	1252	1243	1252	0.16
ADG, lb/d	3.64	3.62	3.66	0.33
F:G	5.85	5.85	5.85	0.94

Table 2. Carcass characteristics of heifers initially implanted with either Revalor-IH, Revalor-H, or Revalor-200, and re-implanted with Revalor-200 84 days pre-harvest.

Item	Revalor-IH/ Revalor-200	Revalor-H/ Revalor-200	Revalor-200/ Revalor-200	p-value
Hot carcass weight, lb	825	818	825	0.16
Dressing percent	65.98	65.64	65.93	0.09
Fat depth, in.	0.60	0.57	0.60	0.08
Ribeye area, sq. in.	15.32	15.50	15.48	0.29
Marbling score	428 ^a	401 ^b	400 ^b	0.01
Calculated YG	2.61	2.46	2.58	0.06
USDA Quality Grade, as percentage of total				
Prime	0.69	0.45	0.92	0.72
Choice	60.55 ^a	49.10 ^b	42.53 ^b	<0.01
Select	32.11 ^a	43.89 ^b	43.45 ^b	<0.01
< Standard	6.65 ^a	6.56 ^a	13.10 ^b	0.01
Dark cutter	1.0	0.5	1.9	0.18
USDA Yield Grade, as percentage of total				
YG 1	11.81 ^a	17.05 ^b	18.14 ^b	0.05
YG 2	38.43	36.36	42.33	0.22
YG 3	39.12 ^a	37.27 ^a	27.21 ^b	<0.01
YG 4	10.19	8.18	10.93	0.39
YG 5	0.46	1.14	1.4	0.42

Table 2. Morbidity, mortality and removals of heifers initially implanted with either Revalor-IH, Revalor-H, or Revalor-200, and re-implanted with Revalor-200 84 days pre-harvest.

Item	Revalor-IH/ Revalor-200	Revalor-H/ Revalor-200	Revalor-200/ Revalor-200	<i>p</i> -value
Total morbidity, %	10.57 ^b	16.31 ^a	12.23 ^{a,b}	0.05
Mortality, %	3.59	1.29	2.58	0.12
Removals, %	2.96	2.58	3.86	0.53

^{a,b}Treatments means are significantly different (P<.05).

Summary

Revalor-IH/Revalor-200, Revalor-H/Revalor-200, and Revalor-200/Revalor-200 implant programs were not different for dry matter intake, ADG, feed conversion or live final BW in heifers fed for 173 days. Hot carcass weight was not different among implant treatments but dressing percentage, fat depth and calculated yield grade tended to be lowest for heifers initially implanted with Revalor-H. Marbling score was greatest in heifers initially implanted with Revalor-IH compared with those receiving Revalor-H or Revalor-200. The change in marbling score resulted in fewer USDA Choice and more USDA Select and Standard carcasses for heifers in the Revalor-H/Revalor-200 and Revalor-200/Revalor-200 treatments compared with Revalor-IS/Revalor-200. Differences in the proportion of dark cutting carcasses were not detected. The distribution of USDA Yield Grades also supported the fact that Revalor-H/Revalor-200 and Revalor-200/Revalor-200 carcasses were leaner than Revalor-IH/Revalor-200 carcasses with more USDA Yield Grade 1 and fewer Yield Grade 3 carcasses. Heifers receiving Revalor-H/Revalor-200 experienced greater total morbidity than those receiving Revalor-IH/Revalor-200 with Revalor-200/Revalor-200 heifers being intermediate. Differences in mortality and removals were not detected.

Conclusion

Increasing the levels of trenbolone acetate and estradiol had minimal effects on growth performance, but had a negative effect on USDA Quality Grade of crossbred heifer calves.

A withdrawal period has not been established for Revalor in pre-ruminating calves. Do not use in calves to be processed for veal. For complete information, refer to product label.



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