

Revalor[®]-XS Summary in Steers

Trial protocol consisted of:

- 11 trials were conducted across the US comparing Revalor-XS vs Revalor-S or Revalor-IS with a re-implant of Revalor-S.
- Trials were conducted in Texas (n=4), Idaho (n=3), Colorado (n=2), Nebraska (n=1) and Oklahoma (n=1).
- A total of 21,230 head of steers in 225 pens with an average pen size of 94 hd/pen were utilized in these trials.
- Days on feed ranged from 130 to 243. Terminal re-implant windows ranged from 74 to 173 days on feed.
- Revalor-XS and Revalor-S implanted cattle in all trials remained in their home pens from start to finish. Cattle that were re-implanted were removed from their pen on the day of re-implanting and no other animal health products were administered.
- Data was analyzed by a mixed procedures model in SAS with study, block within study and study x treatment in the model. Glimmix procedure was used for carcass data.

132 Day Trial Results

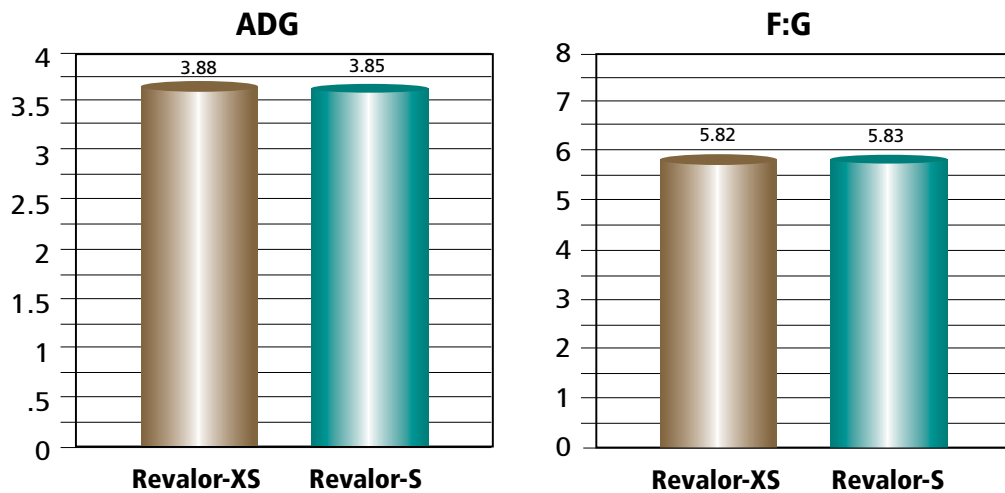
Table 1. The effects of implanting cattle with a Revalor-XS or Revalor-S for 132 days on feed on feedlot performance and carcass traits.

Item	Revalor-XS	Revalor-S	Revalor-XS Advantage	P-value
Initial BW, lb	850	849	+1	.97
Days on feed	132	132	--	--
Live basis				
Final BW, lb ^a	1380	1376	+4	.27
ADG, lb/d	3.88	3.85	+0.03	.13
DMI, lb/d	22.46	22.36	+0.10	.51
F:G	5.82	5.83	-0.01	.32
Carcass basis				
Adj. Final BW ^a , lb	1380	1375	+5	.09
Adj. ADG ^a , lb/d	3.88	3.85	+0.03	.08
Adj. F:G ^a , lb	5.82	5.83	-0.01	.41
Hot carcass wt, lb	870	866	+4	.10
Dressing percent	62.98	62.93	+0.05	.50
REA, in ²	13.92	13.81	.11	.11
REA/100 lb carcass weight	1.56	1.56	0	.73
Marbling score ^b	423	413	+10	.03
Back fat, in.	.56	.57	-0.01	.17
Avg. YG	3.01	3.09	-0.08	.01

^aFinal weight adjusted to the average dressing percent across both treatments

^bMarbling score: 400 = Low Choice and 300 = Select

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Data displayed on carcass adjusted basis.

Table 2. The effects of implanting cattle with a Revalor-XS or Revalor-S for 132 days on feed on Quality and Yield Grade Distribution.

Item	Revalor-XS	Revalor-S	Revalor-XS Advantage	P-value
USDA Quality Grade, as a percentage of total				
Premium Choice	15.9	11.7	+4	.007
Low Choice	44.0	41.1	+3	.25
Total Choice+Prime	59.9	52.8	+7	.23
Select	38.4	45.2	-7	.28
Standard	1.7	2.0	-.30	.17
USDA Yield Grade, as a percentage of total				
YG 1	8.3	7.8	+.50	.54
YG 2	35.6	31.3	+4.3	.001
YG 3	41.8	45.1	-3.3	.29
YG 4 and 5	14.3	15.8	-1.5	.10

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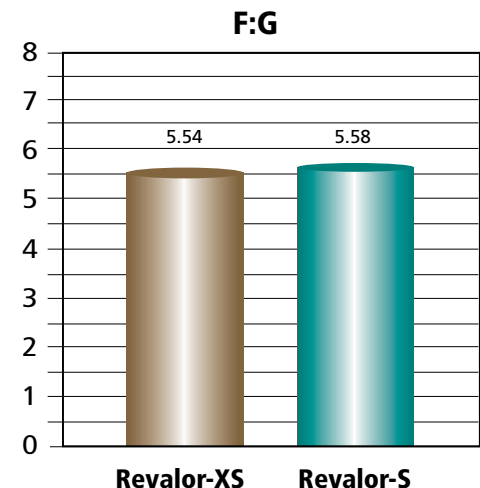
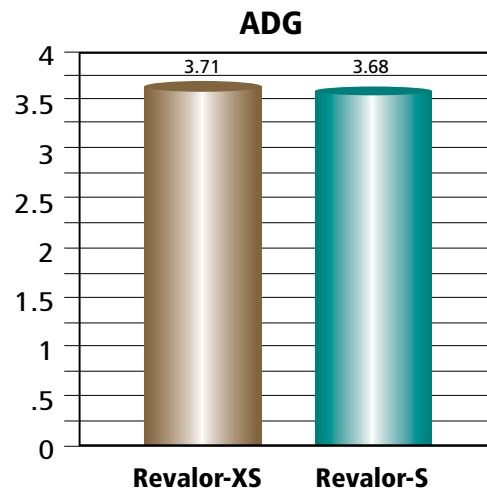
185 Day Trial Results

Table 3. The effects of implanting cattle with a Revalor-XS or Revalor-IS followed by Revalor-S for 185 days on feed on feedlot performance and carcass traits.

Item	Revalor-XS	Revalor-S	Revalor-XS Advantage	P-value
Initial BW, lb	670	670	0	.80
Days on feed	185	185	--	
Live basis				
Final BW, lb	1349	1345	+5	.07
ADG, lb/d	3.71	3.68	+.03	.07
DMI, lb/d	20.53	20.54	-.01	.82
F:G, lb	5.54	5.57	-.03	.11
Carcass basis				
Adj. Final BW ^a , lb	1350	1345	+5	.02
Adj. ADG ^a , lbs/hd/d	3.71	3.68	+.03	.03
Adj. F:G ^a , lb	5.54	5.58	-.04	.03
Hot carcass wt, lb	861	857	+4	.02
Dressing percent	63.83	63.73	+.10	.11
REA, in ²	13.70	13.69	+.01	.70
REA/100 lb carcass weight	1.59	1.59	0	.19
Marbling score ^b	457	453	+4	.07
Back fat, in.	.61	.60	+.01	.50
Avg. YG	3.31	3.28	+.03	.18

^aFinal weight adjusted to the average dressing percent across both treatments

^bMarbling score: 400 = Low Choice and 300 = Select



Data displayed on carcass adjusted basis.

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Table 4. The effects of implanting cattle with a Revalor-XS or Revalor-IS followed by Revalor-S for 185 days on feed on Quality and Yield Grade Distribution.

Item	Revalor-XS	Revalor-S	Revalor-XS Advantage	P-value
USDA Quality Grade, as a percentage of total				
Premium Choice	16.0	16.5	-.50	.78
Low Choice	53.4	52.5	+.90	.51
Total Choice+Prime	69.4	69.0	+.40	.61
Select	29.7	30.1	-.40	.54
Standard	.90	.90	--	.45
USDA Yield Grade, as a percentage of total				
YG 1	5.4	6.8	-1.4	<.01
YG 2	27.5	27.2	+.30	.99
YG 3	44.6	44.2	+.40	.78
YG 4 and 5	22.5	21.8	+.70	.33

Implications

Revalor-XS when compared to Revalor-S in steers on feed an average of 132 days results in improved carcass adjusted ADG, five pounds more carcass adjusted final live weight, four pounds more carcass weight, improved overall yield grade, higher marbling score, more Yield Grade 2, fewer Yield Grade 4 and 5 and more premium Choice and Prime carcasses.

Revalor-XS when compared to a traditional re-implant program of Revalor-IS followed by Revalor-S over 185 days results in a 1% improvement in ADG, five pounds more final live weight, four pounds more carcass weight and fewer Yield Grade 1 carcasses.

Revalor-XS should be used in cattle on feed from 130 to 240 days on feed eliminating the need to re-implant cattle out to 243 days on feed.

A withdrawal period has not been established for this product 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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