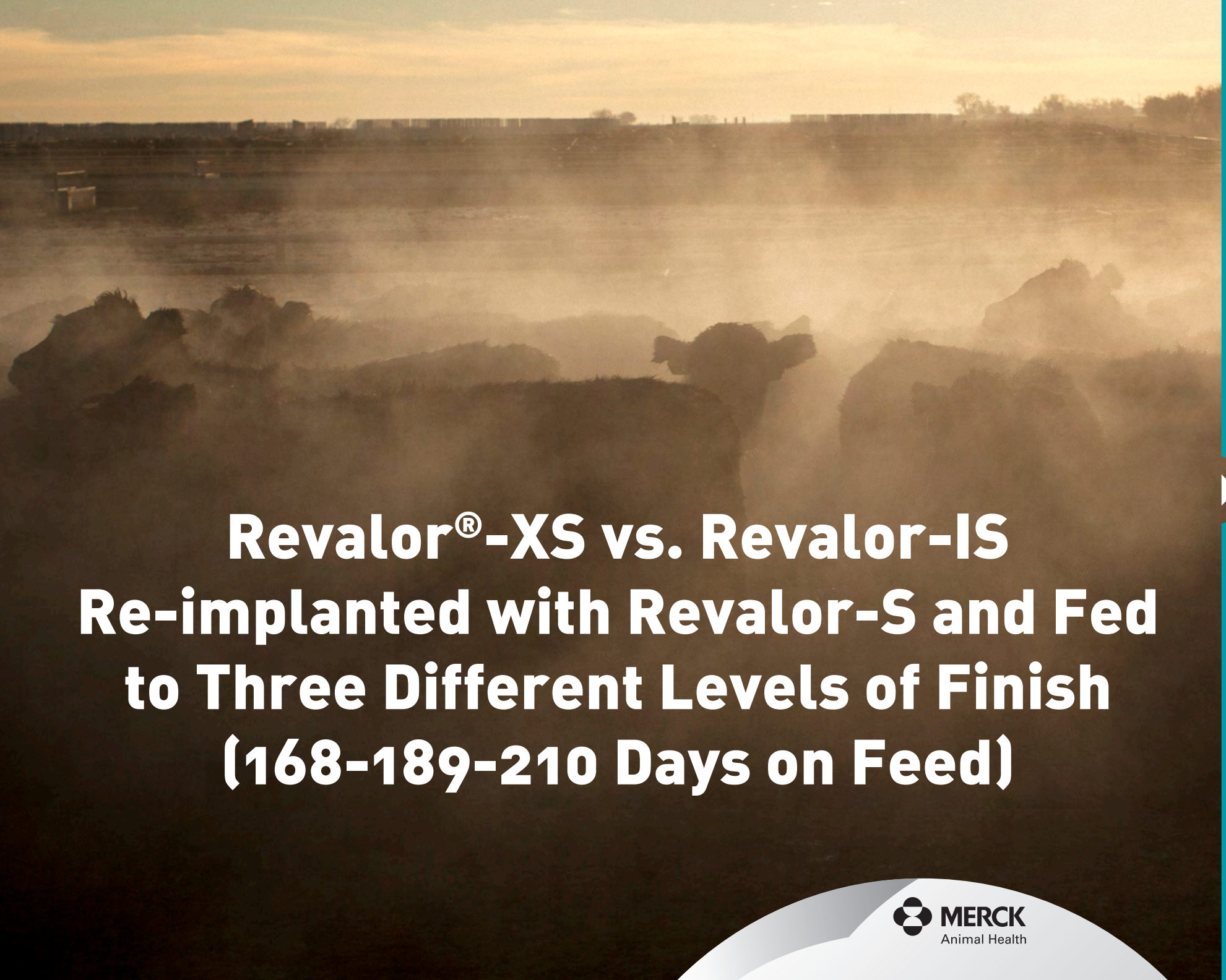

Revalor®-XS vs. Revalor-IS Re-implanted with Revalor-S and Fed to Three Different Levels of Finish (168-189-210 Days on Feed)

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Trial protocol consisted of:

- Study conducted in Texas
- 2,088 head of cattle; 24 pens of approximately 87 head per pen
- Revalor®-IS (trenbolone acetate and estradiol) and Revalor-XS given on day 1 of trial
- Revalor-S re-implanted on day 80
- Three different harvest dates were 168, 189 and 210 days on feed
- Revalor-XS cattle were not removed from their pens on day 80
- No vaccine boosters were given

Table 1. Performance of steers implanted with Revalor-IS on day 1 followed by Revalor-S on day 80 compared to steers implanted with Revalor-XS.

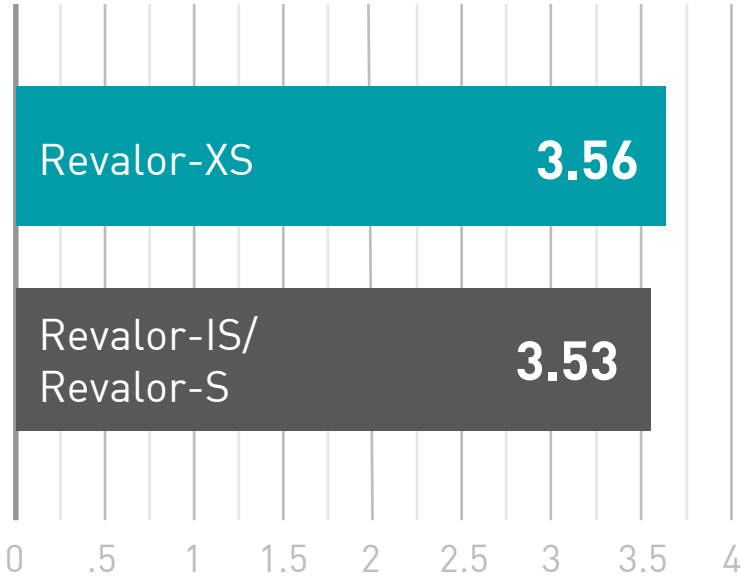
Item	Revalor-XS	Revalor-IS/ Revalor-S	SEM	*p*-value for implant trait	*p*-value for interaction
Pens	12	12			
Steers	1044	1044			
Days on feed	189	189			
Initial BW, lb	695	697	5	0.23	0.93
Live basis					
Final BW, lb[a]	1361	1354	9	0.38	0.43
DMI, lb/d	20.98	21.01	0.28	0.93	0.58
ADG, lb/d	3.55	3.51	0.05	0.33	0.33
F:G	5.92	5.98	0.08	0.39	0.59
Carcass adjusted basis					
Final BW, lb[b]	1363	1359	8	0.55	0.62
ADG, lb/d	3.56	3.53	0.04	0.46	0.52
F:G	5.91	5.93	0.10	0.75	0.99

[a] A 4% pencil shrink was applied to full weight.
[b] Final adjusted shrunk weight was calculated as pen hot carcass weight ÷ (overall dressing percent ÷100).

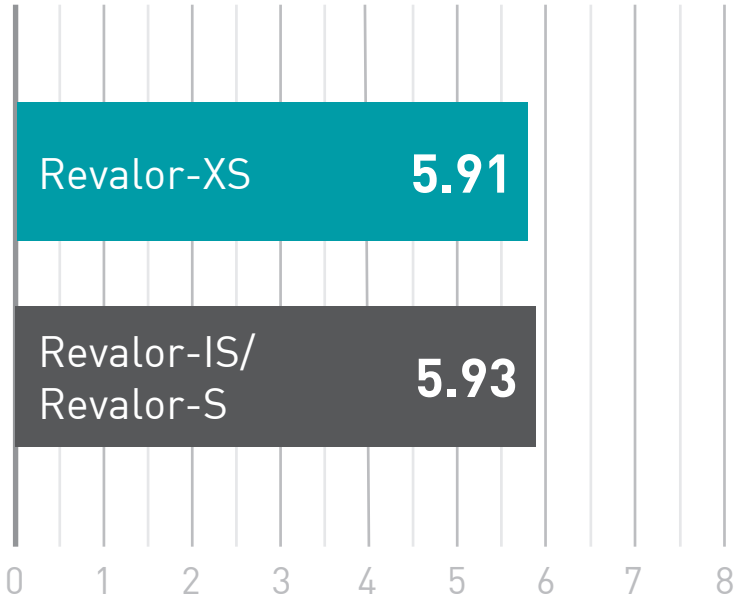
View Chart

Table 1

ADG



F:G



Data displayed on carcass adjusted basis

Table 2. Carcass characteristics of steers implanted with Revalor-IS on day 1 followed by Revalor-S on day 80 compared to steers implanted with Revalor-XS.

Item	Revalor-XS	Revalor-IS/ Revalor-S	SEM	*p*-value for implant trait	*p*-value for interaction
Pens	12	12			
Steers	1044	1044			
Carcass weight, lb	870	867	5	0.55	0.62
Dressing percent	63.7	63.9	0.17	0.28	0.96
Ribeye area, sq. in.	14.11	14.12	0.15	0.94	0.75
Marbling score[a]	419	414	7	0.61	0.57
KPH fat, %	1.9	1.9	0.05	0.93	0.48
Rib fat, in.	0.64	0.62	0.02	0.41	0.99
Average YG	3.28	3.24	0.66	0.57	0.86
Empty body fat, %[b]	31.1	30.9	0.30	0.37	0.90
USDA Quality Grade, as percentage of total					
Prime	0.8	1.0	-	0.71	0.93
Upper $^{2}/_{3}$ Choice	11.1	11.3	-	0.99	0.56
Low Choice	49.1	46.5	-	0.28	0.18
Total Choice[c]	60.2	57.8	-	0.31	0.06
Select[c]	38.2	40.5	-	0.37	0.05
Standard	0.8	0.6	-	0.84	0.98
USDA Yield Grade, as percentage of total					
YG 1	7.5	8.3	-	0.58	0.55
YG 2	32.1	31.2	-	0.69	0.80
YG 3	41.2	41.8	-	0.80	0.40
YG 4	14.4	15.8	-	0.76	0.43
YG 5	4.9	3.0	-	0.32	0.74

[a]Slight = 300 to 399, Small = 400 to 499, etc.

[b]Calculated according to equations described by Guiroy et al. (2001; *Journal of Animal Science* 79:1983).

[c]Significance of interaction between harvest date and implant treatment (P<0.06).

Table 3. Effects of implant program and days on feed on USDA Choice and Select carcasses in beef steers.

Item	Revalor-XS			Revalor-IS/Revalor-S			*p*-value
Days on feed	168	189	210	168	189	210	
Choice and >	59.5^{b,c}	65.6^{c}	57.8^{a,b}	52.3^{a}	61.1^{b,c}	63.3^{b,c}	0.05
Choice	58.3^{b}	65.3^{c}	56.8^{a,b}	51.1^{a}	60.4^{b,c}	62.1^{b,c}	0.06
Select	39.6^{b,c}	33.1^{c}	41.9^{a,b}	47.1^{a}	38.0^{b,c}	36.3^{b,c}	0.04

^{a,b,c} Means in the same row that do not have a common superscript letter differ, (P<0.06).
USDA Quality Grades, as percentage of total

Table 4. Performance of steers fed 168, 189 and 210 days on feed.

Days on feed	168	189	210	SEM	*p*-value
Pens	8	8	8		
Steers	696	696	696		
Initial BW, lb	700	695	693	5	0.07
Live basis					
Final BW, lb	1310[a]	1352[b]	1411[c]	9	0.0001
DMI, lb/hd/d	21.23	20.88	20.86	0.28	0.58
ADG, lb	3.67[a]	3.49[b]	3.42[c]	0.05	0.002
F:G	5.76[a]	5.98[b]	6.11[b]	0.08	0.005
Carcass adjusted basis					
Final BW, lb	1307[a]	1350[b]	1426[c]	8	0.0001
ADG, lb	3.66[a]	3.48[b]	3.50[b]	0.04	0.001
F:G	5.77[a]	6.00[b]	5.98[b]	0.10	0.05

[a,b,c] Means in the same row that do not have a common superscript letter differ, (P<0.05).

Table 5. Carcass characteristics of steers fed 168, 189 or 210 days on feed.

Days on feed	168	189	210	SEM	*p*-value
Hot carcass weight, lb	834[a]	861[b]	910[c]	5	0.0001
Dressing precent	63.6[a]	63.6[a]	64.2[b]	0.17	0.03
Carcass ADG, lb/d	2.58[a]	2.44[b]	2.43[b]	0.03	0.0001
Ribeye area, sq. in.	13.94	14.09	14.32	0.15	0.21
Rib fat, in.	0.56[a]	0.61[b]	0.72[c]	0.02	0.001
KPH fat, %	1.86[a]	1.94[b]	2.00[c]	0.05	0.001
Average YG	3.00[a]	3.19[b]	3.58[c]	0.66	0.0001
Marbling score	404	424	422	7	0.17
Empty body fat, %	29.88[a]	30.78[b]	32.34[c]	0.30	0.0001
USDA Quality Grade, as percentage of total					
Prime	1.2	0.47	1.1	-	0.59
Upper $^{2}/_{3}$ Choice	6.9[a]	14.5[b]	12.3[b]	-	0.001
Low Choice	47.8	48.4	47.2	-	0.92
Standard	0.70	1.1	0.30	-	0.54
USDA Yield Grade, as percentage of total					
YG 1	9.9[a]	9.0[a]	4.5[b]	-	0.003
YG 2	40.4[a]	31.9[a]	22.2[b]	-	0.001
YG 3	40.2	42.3	41.9	-	0.73
YG 4+5	9.5	16.8	31.4	-	0.11

[a,b,c] Means in the same row that do not have a common superscript letter differ, (P<0.05).
[d] Slight = 300 to 399, Small = 400 to 499, etc.

Summary

Except for USDA Choice and Select categories, no interactions between implant treatments and serial harvest groups were noted (P>0.10), indicating that the responses associated with implant and serial harvest groups are independent. No differences (P>0.10) in any growth or carcass parameters were detected between Revalor-XS and Revalor-IS re-implant with Revalor-S implant programs. Within the early (168 days) harvest group, the percentage of Prime and Choice carcasses was higher (P<0.06) in the Revalor-XS (59.5%) treatment than in the Revalor-IS/Revalor-S (52.3%) treatment, but did not differ (P>0.10) between the implant treatments within each of the middle (189 days) and late (210 days) harvest groups.

Conclusion

Revalor-XS given solely at initial processing provides equal performance and carcass traits across days on feed as cattle that receive an implant/re-implant regimen of Revalor-IS/Revalor-S. Within the early harvest group, the percentage of Prime and Choice carcasses was higher (P<0.10) in the Revalor-XS treatment than in the Revalor-IS/Revalor-S treatment (59.5 vs. 52.3%).

A withdrawal period has not been established for Revalor products 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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