

Table 1. Growth performance responses through d 118 deads and removals excluded¹.

Item	Treatments			SEM	P - values		
	MDGS (1)	SBM (2)	SBM/SBH (3)		Treatment	SBM effect (1 v. 2 and 3)	Starch Effect (2 v. 1 and 3)
No. Pens	8	8	8	-	-	-	-
No. Steers	79	79	80	-	-	-	-
Initial BW, lbs	963	956	957	-	-	-	-
d 1 to 21							
d 21 BW, lbs	1038	1082	1077	4.4	0.01	0.01	0.01
ADG, lbs	3.57	5.96	5.73	0.206	0.01	0.01	0.01
DMI, lbs	22.15	24.22	23.34	0.148	0.01	0.01	0.01
G:F	0.161	0.246	0.245	0.0080	0.01	0.01	0.01
F:G	6.39	4.10	4.10	0.252	0.01	0.01	0.01
Cumulative (HCW/0.625)							
Final BW, lbs	1508	1497	1481	8.5	0.11	0.09	0.81
ADG, lbs	4.61	4.58	4.44	0.071	0.22	0.25	0.56
DMI, lbs	29.08	29.33	29.28	0.212	0.68	0.39	0.57
G:F	0.159	0.156	0.152	0.0023	0.13	0.11	0.73
F:G	6.29	6.41	6.58	-	-	-	-
Dietary NE²							
NEm, Mcal/cwt	93.03	92.56	90.76	0.881	0.19	0.22	0.55
NEg, Mcal/cwt	62.99	62.57	61.00	0.772	0.19	0.22	0.55
Observed to Expected Ratio							
NEm	1.00	1.00	0.99	0.010	0.92	0.84	0.84
NEg	1.01	1.01	1.00	0.012	0.88	0.97	0.66
DMI	1.00	0.99	1.00	0.011	0.88	0.86	0.75
Carcass traits							
HCW, lbs	942	936	926	5.3	0.11	0.09	0.81
DP ³ , %	61.96	61.14	61.23	0.291	0.13	0.05	0.22
REA, in sq.	13.95	13.70	13.66	0.110	0.17	0.07	0.42
RF, in	0.61	0.62	0.62	0.016	0.90	0.69	0.99

Marbling ⁴	535	549	531	10.9	0.51	0.74	0.27
Yield Grade	3.65	3.72	3.69	0.062	0.74	0.47	0.57

**Yield Grade
(YG)
Distributio
n, %**

1	1.3	1.3	0.0	-	0.39	-	-
2	24.4	15.2	18.3				
3	52.6	62.0	53.7				
4	21.8	20.3	26.8				
5	0.0	1.3	1.2				

**Quality
Grade
Distributio
n, %**

Select	6.4	3.9	8.8	-	0.70	-	-
Low Choice	26.9	26.0	28.8				
Average Choice	42.3	42.9	40.0				
High Choice	18.0	23.4	18.8				
Prime	6.4	3.9	3.8				

**Liver
Outcomes,
%**

Normal	76.9	73.4	64.6	-	0.11	-	-
A-	11.5	13.9	11.0				
A	5.1	1.3	6.1				
A+ or greater	6.4	11.4	18.3				

¹ A 4% shrink was applied to the initial BW measure to account for digestive tract fill and all subsequent BW measures were pencil shrunk 2% to account for digestive tract fill.

² Determined from carcass-adjusted growth performance.

³ Calculated as: (HCW/Final BW shrunk 4%) × 100.

⁴ Small⁰⁰ = 400.