

The Florida Bull Test 2015–2016¹

Carla D. Sanford, G. Cliff Lamb, and Nicolas DiLorenzo²

Test Procedures

The 16th annual Florida Bull Test Sale was held on January 16, 2016 at the conclusion of the 2015–2016 Florida Bull Test. The test evaluated the performance potential and breeding soundness of bulls consigned to the program at the UF/IFAS North Florida Research and Education Center (NFREC). In an ongoing effort to better serve consignors and bull buyers, the 2015–2016 test provided data on individual feed efficiency for each bull, making this the fifth year that this information has been included. After the test, consignors with bulls that met the established benchmarks of the test were then given the opportunity to sell their consignments in the Florida Bull Test Sale. In order to qualify, bulls needed to meet growth performance, structural soundness, and disposition standards. Sale bulls also must have successfully passed a breeding soundness exam to qualify for the auction. Potential buyers and consignors were able to fully evaluate the animals on all parameters including actual performance data, expected progeny differences (EPDs), and carcass ultrasound data.

The 112-day test began on July 28, 2015, with bulls being sorted into contemporary groups based on consignor and breed (8 to 12 bulls per pen). Bulls were then housed in the NFREC Feed Efficiency Facility where they received free-choice access to a total mixed ration and water to achieve a target rate of gain of 3.5 lb per day. On a dry matter (DM) basis, the diet consisted of 42% pelleted soy hulls, 41% pelleted corn gluten feed, 12% loose peanut hulls, and 5% molasses-based liquid supplement containing

vitamins, minerals, and ionophore (monensin). The diet was formulated to contain 16.3% crude protein and 0.51 Mcal/lb of DM net energy of gain (NEg).

After a three-week adaptation period, bulls were weighed on two consecutive days to obtain an accurate average unshrunk weight, which was used as the on-test starting weight. Throughout the test, bulls were inspected daily for any potential health problems. An intermediate unshrunk weight was obtained after 28 days. Bulls were then weighed on two consecutive days for an accurate 56-day weight, completing the feed efficiency portion of the test. On the same day, bulls were removed from the feed efficiency facility and then housed in 3.25-acre pastures where they stayed for the remainder of the test. While pasture grazing, bulls remained in the contemporary groups assigned in the feed efficiency facility pens. In addition to grazing and free-choice bermudagrass hay, bulls were offered free-choice access to the same total mixed ration which was provided in the feed efficiency facility. On day 84 of the test, an additional intermediate unshrunk weight was obtained. At the conclusion of the 112-day feeding period, bulls were weighed again on two consecutive days, December 8 and 9, to determine their final test weights. Animal performance by average daily gain (ADG) was assessed through calculation using only the starting and finishing test weights. Bulls were monitored throughout the test for overall health and were also observed and screened for structural soundness and disposition. Any bull deemed structurally unsound with poor conformation or chronic lameness or with poor disposition was disqualified from the sale.

1. This document is AN328, one of a series of the Department of Animal Sciences, UF/IFAS Extension. Original publication date November 2016. Visit the EDIS website at <http://edis.ifas.ufl.edu>.

2. Carla D. Sanford, graduate assistant; G. Cliff Lamb, professor; and Nicolas DiLorenzo, assistant professor; Department of Animal Sciences, UF/IFAS North Florida Research and Education Center, Marianna, FL 32446.

For the second year, the Florida Bull Test offered remote bidding for the sale of bulls through a verified online bidding company. This service allowed consignors to market their bulls to potential buyers who were unable to attend the sale in person. Additionally, a video clip of each bull was made available online as a means of visual evaluation for those who could not visit the NFREC facility before the sale. On the day of the sale, 18 of the 29 registered bidders actively participated in the live auction.

Assessment of Feed Efficiency

Upon arrival at the feed efficiency facility, bulls were tagged with electronic identification (EID) tags to monitor daily feed intake using the GrowSafe system. ADG was calculated for the 56-day feed efficiency portion of the test. Residual feed intake (RFI), calculated as the difference between actual feed intake and expected feed intake, was the measure of feed efficiency used to rank the bulls in the test. Daily feed intake was measured for each bull, and RFI was calculated as described by Maddock and Lamb (2009).

Test Rules and Regulations

General Policies and Procedures

1. Bulls must have been born between August 15 and December 31, 2014.
2. All consignors' herds must have been enrolled in their respective breed association performance program. State BCIA programs were accepted for herds whose breed association did not have a performance record program.
3. Bulls must have completed the weaning phase of the performance record program with their contemporary group, and this information must have been presented upon delivery. If data had not yet been returned from the consignor's respective association, a copy of the weight data with the number of contemporaries was requested.
4. Bulls could either be purebred or fullblood, but must have been registered with their breed association. Composite bulls must have had both sire and dam registered in an acknowledged beef breed association. A registration certificate and pedigree were required at time of bull delivery to the test station. Otherwise, bulls were not accepted.
5. Each bull was required to weigh 2.5 pounds per day of age when delivered to the test station. A transit shrink of 1% per hour of transit time was allowed.

6. Bulls must have been weaned a minimum of three weeks prior to delivery.
7. Bulls were required to be structurally sound and show evidence of good growth potential.
8. Birth weights of bulls were required at time of delivery.
9. Consignments were limited to ten bulls per owner or operation. Additional consignments would have been considered on the basis of space availability.
10. There was a limit of 132 bulls for the Florida Bull Test. More than 132 bulls were nominated. As a result, the following selection criteria were used to determine which bulls were accepted.
 - First preference was given to breeders or consignors who were members of the Florida Cattlemen's Association.
 - Secondly, bulls were accepted based on the order in which nominations were received.
11. Bulls originating from embryo transfer must have been designated as such, and the breed of the recipient cow must have been identified.
12. Bulls must have had legible and permanent identification (tattoo or brand) corresponding to the registration paper at delivery.
13. Consignors were informed that horned bulls may be grouped separately. Additionally, it was recommended that bulls be dehorned and healed by time of delivery.

Health Requirements

1. All bulls were required to be in good health. They needed to be accompanied by a health certificate bearing the herd number that indicated they were from an accredited or certified brucellosis-free state or herd or had a negative test for brucellosis no more than 30 days before delivery. Bulls originating from a state that is not tuberculosis (TB)-free were required to be accompanied by a health certificate showing they were from a certified TB-free herd or have had a negative test result for TB no more than 30 days prior to time of delivery.
2. Bulls must have been vaccinated twice with at least 21 days between vaccinations for the following: 5-way leptospirosis, 7- or 8-way clostridium with *Haemophilus somnus*, and IBR/PI3/BVD/BRSV, with the last vaccination occurring at least three weeks prior to delivery.

Vaccination for *Pasteurella* was optional. The use of intra-nasal vaccination against IBR/PI3 was recommended.

3. Consignors were responsible for all examination and treatment costs if veterinary attention was required.
4. Consignors were encouraged to contact their local or state veterinarian for interstate permit and health requirements. An official certificate of veterinary inspection (health paper) was required for each bull.

Test Results

At the conclusion of the test, an overall ranking assessing the parameters of ADG and the weight per day of age (WDA) of each bull was compiled, and an index ratio was generated. The top performing bull as well as top performing Charolais bull was owned by Rogers Bar HR of Collins, MS, indexing 136 with an ADG of 4.95 and WDA of 3.22 lb/day. The top SimAngus bull, BF Catalyst B59, was owned by Boyd Farm of New Brockton, AL, ranking 2nd overall and indexing 131 with an ADG of 4.24 and WDA of 3.64 lb/day.

The top Simmental bull, WF Powerball, was owned by Wells Farm in Selma, AL and ranked 5th overall, indexing 127 with an ADG of 4.22 and WDA of 3.40 lb/day. The top Angus bull, Bates CC&7 Blackberry B14, owned by Windy Hill Angus Farm in Boaz, AL, was ranked 9th overall and indexed 118 with an ADG of 3.83 and WDA of 3.29 lb/day. The top Hereford bull, JTN Rev 4R 9114 B20, was owned by J. Taylor Neighbors of Americus, GA and ranked 36th overall, indexing 107 with an ADG of 3.45 and WDA of 2.96 lb/day.

The top Brahman bull, FF MR BAR COYO, owned by Ford Farms of Malone, FL, was ranked 45th overall and indexed 105 with an ADG of 3.82 and WDA of 2.52 lb/day. The top composite bull owned by Running M Ranch from Tallahassee, FL was ranked 86th overall and indexed 97 with an ADG of 3.00 and WDA of 2.84 lb/day. The top Braford bull was also owned by Running M Ranch and was ranked 95th overall, indexing 94 with an ADG of 2.98 and WDA of 2.66 lb/day. Table 1 summarizes feed efficiency data, and Table 2 summarizes individual feed intake and feed efficiency. Table 3 summarizes individual animal performance.

Sale Summary

The Florida Bull Test Sale was held at the NFREC Beef Unit in Marianna, FL. Initially, 136 bulls entered the test. Eighty-five head of the 108 qualified bulls walked through the sale ring for offer. The sale grossed \$350,778 with an average of \$4,078 per lot. The one and only Brahman bull

offered was sold for \$4,600. Angus bulls averaged \$4,586 on 18 lots while SimAngus bulls averaged \$4,020 on 44 lots. Simmental bulls averaged \$4,005 on 17 lots. Hereford bulls averaged \$3,620 on five lots, and Charolais bulls averaged \$2,833 on three lots. The high-selling bull was lot 9, Bates CC&7 Blackberry B14, selling for \$6,300. Bates CC&7 Blackberry B14 was consigned by Windy Hill Angus Farm of Boaz, AL and purchased by Herman Walker of DeFuniak Springs, FL.

Reference

Maddock, T. D., and G. C. Lamb. 2009. *The Economic Impact of Feed Efficiency in Beef Cattle*. AN217. Gainesville: University of Florida Institute of Food and Agricultural Sciences. <http://edis.ifas.ufl.edu/an217>



Figure 1. Charles and Laura Flythe of C & L Farm receiving their award for their consignment, CLS Moving Forward14, that concluded the test as the Florida Bull Test Feed Efficiency Winner. Pictured from front to back: Charles and Laura Flythe of C & L Farm, Dr. Nick Comerford (UF/IFAS NFREC director), and David Thomas (UF/IFAS NFREC Beef Unit supervisor).

Credits: Francine Messias, UF/IFAS

Table 1. Summary of feed efficiency data for bulls in the 2015–2016 Florida Bull Test.

Item	Daily Intake, lb of DM/day	RFI, lb of DM/day	Feed: Gain
Average	20.13	0.00	6.71
Range	11.07–28.58	-6.78–6.81	4.20–15.70

Table 2. 2015–2016 Florida Bull Test individual bull feed efficiency and feed intake data.

Test ID	Breed	56-Day Daily Feed Intake, lb/day	Feed: Gain	Gain: Feed	56-Day RFI, lb/day	56-Day Feed Efficiency Rank
1399	SimAngus	15.88	4.49	0.22	-6.78	1
1412	Angus	15.81	4.66	0.21	-6.08	2
1404	Angus	13.49	5.68	0.18	-5.51	3
1424	Angus	17.24	4.74	0.21	-5.41	4
1401	SimAngus	19.27	4.41	0.23	-4.44	5
1409	Composite	12.48	5.50	0.18	-4.01	6
1413	Angus	20.59	5.06	0.20	-3.45	7
1437	Angus	14.27	4.76	0.21	-3.27	8
1390	Hereford	15.09	5.83	0.17	-3.05	9
1378	SimAngus	20.62	6.08	0.16	-2.78	10
1322	Simmental	17.96	4.93	0.20	-2.56	11
1397	SimAngus	13.13	5.33	0.19	-2.56	12
1430	Simmental	22.91	5.64	0.18	-2.52	13
1368	SimAngus	19.35	6.67	0.15	-2.44	14
1415	Simmental	16.75	7.03	0.14	-2.37	15
1341	Brahman	18.19	4.35	0.23	-2.34	16
1323	Simmental	17.20	5.85	0.17	-2.27	17
1420	Angus	16.63	6.38	0.16	-2.27	18
1380	Angus	16.95	5.05	0.20	-2.26	19
1348	SimAngus	20.60	5.43	0.18	-2.19	20
1356	SimAngus	15.57	6.41	0.16	-2.07	21
1408	Braford	11.07	4.96	0.20	-2.05	22
1411	Composite	15.42	5.83	0.17	-2.04	23
1391	Hereford	13.18	15.70	0.06	-2.00	24
1346	Simmental	19.97	6.06	0.17	-2.00	25
1410	Braford	12.79	5.64	0.18	-1.94	26
1381	Angus	15.22	7.48	0.13	-1.87	27
1353	Simmental	17.35	5.89	0.17	-1.82	28
1447	Charolais	19.07	4.20	0.24	-1.79	29
1373	SimAngus	20.33	5.69	0.18	-1.72	30
1343	Brahman	18.19	5.61	0.18	-1.71	31
1383	SimAngus	18.84	5.44	0.18	-1.66	32
1421	Angus	20.22	6.38	0.16	-1.61	33
1334	Simmental	21.60	6.28	0.16	-1.54	34
1406	Braford	15.30	4.30	0.23	-1.52	35
1372	SimAngus	20.56	5.55	0.18	-1.47	36
1422	Angus	20.50	5.87	0.17	-1.45	37
1388	Hereford	17.10	6.77	0.15	-1.42	38
1345	SimAngus	20.50	5.07	0.20	-1.33	39
1367	SimAngus	18.00	5.63	0.18	-1.02	40

Test ID	Breed	56-Day Daily Feed Intake, lb/day	Feed: Gain	Gain: Feed	56-Day RFI, lb/day	56-Day Feed Efficiency Rank
1342	Brahman	17.69	5.69	0.18	-1.00	41
1376	SimAngus	20.83	8.48	0.12	-0.99	42
1438	Hereford	13.56	14.61	0.07	-0.98	43
1370	SimAngus	22.38	5.88	0.17	-0.92	44
1416	Angus	14.82	7.68	0.13	-0.90	45
1358	Simmental	20.65	5.91	0.17	-0.90	46
1385	Hereford	18.06	6.20	0.16	-0.81	47
1354	Simmental	20.72	5.67	0.18	-0.81	48
1327	Angus	23.10	5.28	0.19	-0.60	49
1328	Angus	19.66	6.86	0.15	-0.59	50
1418	Angus	21.54	6.61	0.15	-0.57	51
1360	Simmental	21.36	5.40	0.19	-0.54	52
1400	SimAngus	19.15	8.15	0.12	-0.46	53
1350	SimAngus	18.42	7.37	0.14	-0.37	54
1392	Composite	21.11	5.91	0.17	-0.32	55
1402	SimAngus	19.94	7.42	0.13	-0.29	56
1407	Braford	13.65	4.38	0.23	-0.19	57
1365	SimAngus	18.15	7.76	0.13	-0.17	58
1324	SimAngus	22.37	6.87	0.15	-0.14	59
1444	Charolais	21.57	4.74	0.21	-0.13	60
1439	SimAngus	19.55	7.90	0.13	-0.06	61
1393	Angus	18.18	5.92	0.17	-0.06	62
1344	SimAngus	24.59	7.15	0.14	-0.05	63
1441	Charolais	17.96	5.81	0.17	0.04	64
1339	Simmental	19.81	5.52	0.18	0.05	65
1319	SimAngus	22.26	6.74	0.15	0.05	66
1317	Simmental	23.85	6.36	0.16	0.14	67
1340	Brahman	18.03	6.08	0.16	0.24	68
1355	SimAngus	21.98	6.35	0.16	0.25	69
1414	Simmental	21.82	6.75	0.15	0.26	70
1423	Angus	20.45	6.98	0.14	0.34	71
1325	Angus	17.64	5.95	0.17	0.37	72
1387	Hereford	18.65	7.79	0.13	0.38	73
1333	SimAngus	24.81	7.04	0.14	0.38	74
1443	Charolais	18.83	5.73	0.17	0.40	75
1366	Simmental	22.58	6.20	0.16	0.41	76
1364	SimAngus	21.19	6.38	0.16	0.43	77
1377	SimAngus	21.25	6.38	0.16	0.44	78
1405	Angus	17.63	7.15	0.14	0.47	79
1361	SimAngus	17.15	5.89	0.17	0.53	80
1369	SimAngus	20.47	6.26	0.16	0.57	81
1434	Angus	20.25	4.85	0.21	0.59	82
1316	SimAngus	21.31	6.88	0.15	0.68	83
1326	Angus	16.36	5.76	0.17	0.68	84
1449	Charolais	19.73	5.64	0.18	0.70	85

Test ID	Breed	56-Day Daily Feed Intake, lb/day	Feed: Gain	Gain: Feed	56-Day RFI, lb/day	56-Day Feed Efficiency Rank
1431	Angus	15.49	9.86	0.10	0.70	86
1395	SimAngus	16.96	8.48	0.12	0.71	87
1362	Simmental	25.39	7.02	0.14	0.71	88
1396	SimAngus	17.79	7.72	0.13	0.83	89
1428	Angus	17.57	6.60	0.15	0.85	90
1338	Simmental	23.41	4.92	0.20	0.90	91
1371	SimAngus	21.75	7.59	0.13	0.95	92
1352	SimAngus	17.66	12.84	0.08	0.98	93
1359	Simmental	18.22	13.17	0.08	1.01	94
1427	Angus	26.59	6.14	0.16	1.10	95
1432	Angus	18.29	6.48	0.15	1.12	96
1446	Charolais	24.47	5.17	0.19	1.14	97
1349	SimAngus	22.32	7.18	0.14	1.17	98
1389	Hereford	20.54	8.65	0.12	1.20	99
1382	Angus	19.20	7.85	0.13	1.20	100
1320	Simmental	24.93	6.89	0.15	1.20	101
1419	Angus	23.13	7.30	0.14	1.26	102
1448	Charolais	18.79	6.45	0.15	1.35	103
1321	Simmental	20.74	5.30	0.19	1.46	104
1445	Charolais	21.74	7.63	0.13	1.52	105
1335	Angus	23.29	6.02	0.17	1.55	106
1440	Charolais	22.97	6.70	0.15	1.56	107
1374	SimAngus	24.31	6.16	0.16	1.65	108
1398	SimAngus	24.88	6.46	0.15	1.81	109
1332	SimAngus	24.69	7.47	0.13	1.87	110
1375	Simmental	25.57	7.25	0.14	1.90	111
1436	Angus	21.73	5.34	0.19	1.92	112
1435	Angus	17.73	7.52	0.13	1.95	113
1426	Angus	22.10	6.95	0.14	2.00	114
1425	Angus	24.52	6.99	0.14	2.00	115
1363	SimAngus	24.40	6.71	0.15	2.01	116
1351	SimAngus	22.31	8.65	0.12	2.12	117
1357	SimAngus	23.11	7.07	0.14	2.17	118
1318	SimAngus	22.13	6.47	0.15	2.22	119
1314	SimAngus	28.08	5.95	0.17	2.55	120
1403	SimAngus	24.26	6.83	0.15	2.58	121
1394	SimAngus	23.23	7.68	0.13	2.65	122
1384	SimAngus	24.31	6.10	0.16	2.75	123
1337	SimAngus	25.67	6.75	0.15	2.90	124
1442	Charolais	24.31	6.19	0.16	3.12	125
1429	SimAngus	23.93	6.91	0.14	3.29	126
1315	SimAngus	23.62	6.52	0.15	3.90	127
1336	Simmental	26.21	7.76	0.13	3.91	128
1331	SimAngus	28.58	7.04	0.14	4.13	129
1347	SimAngus	23.67	11.53	0.09	4.27	130

Test ID	Breed	56-Day Daily Feed Intake, lb/day	Feed: Gain	Gain: Feed	56-Day RFI, lb/day	56-Day Feed Efficiency Rank
1386	Hereford	22.28	10.10	0.10	4.31	131
1330	Simmental	25.37	8.91	0.11	5.36	132
1379	Angus	23.62	8.02	0.12	5.44	133
1433	Angus	20.88	15.39	0.06	6.81	134

Table 3. 2015–2016 Florida Bull Test individual bull performance in order of final test index.

Test ID	Breed	Start Weight	28-Day Weight	56-Day Weight	84-Day Weight	Final Weight	Final ADG	Final WDA	Final Index	Final Index Ratio	Frame Score
1314	SimAngus	1001	884	1003	1275	1400	3.57	3.57	7.14	119	6.4
1315	SimAngus	767	1025	1100	1330	1135	3.29	3.04	6.33	105	5.8
1316	SimAngus	924	1075	1265	1060	1290	3.27	3.27	6.53	109	6.3
1317	Simmental	1038	1000	1098	1180	1363	2.90	2.98	5.88	98	6.6
1318	SimAngus	816	980	778	1200	1160	3.07	3.10	6.17	103	6.8
1319	SimAngus	1005	1040	1080	1315	1370	3.26	2.96	6.22	103	5.9
1320	Simmental	1063	976	1148	1100	1445	3.42	3.14	6.56	109	6.4
1321	Simmental	687	828	1173	1315	1108	3.75	3.20	6.96	116	6.3
1322	Simmental	821	526	928	872	1133	2.78	2.44	5.22	87	5.3
1323	Simmental	868	910	884	902	1118	2.23	2.43	4.66	78	5.6
1324	SimAngus	1035	930	970	1255	1375	3.04	3.02	6.05	101	6.4
1325	Angus	708	764	1050	1255	1093	3.43	2.63	6.06	101	4.5
1326	Angus	621	1020	630	1185	1005	3.43	2.47	5.90	98	4.9
1327	Angus	925	986	977	1285	1280	3.17	3.01	6.18	103	5.8
1328	Angus	937	912	1035	1055	1233	2.64	2.77	5.41	90	6.2
1330	Simmental	923	846	1128	1105	1228	2.72	2.66	5.38	90	5.8
1331	SimAngus	1038	1005	1025	964	1380	3.06	3.09	6.15	102	5.1
1332	SimAngus	1050	1125	1173	1275	1398	3.10	3.06	6.16	103	6.5
1333	SimAngus	1133	848	1188	1195	1458	2.90	3.35	6.25	104	6.8
1334	Simmental	1050	1030	1145	1310	1380	2.95	3.38	6.33	105	7.2
1335	Angus	871	1015	1065	972	1195	2.89	2.59	5.49	91	4.7
1336	Simmental	999	1015	1045	1425	1373	3.34	2.98	6.32	105	5.6
1337	SimAngus	957	1060	1055	986	1320	3.24	2.97	6.21	103	5.6
1338	Simmental	771	1050	1210	1335	1218	3.99	2.92	6.91	115	5.4
1339	Simmental	776	960	1273	1170	1190	3.70	2.82	6.52	108	5.3
1340	Brahman	744	904	1133	966	1053	2.75	2.20	4.95	82	6.0
1341	Brahman	730	1100	1195	1180	1158	3.82	2.52	6.34	105	7.0
1342	Brahman	783	794	1011	1020	1078	2.63	2.28	4.91	82	5.0
1343	Brahman	846	796	968	1065	1140	2.63	2.36	4.98	83	6.7
1344	SimAngus	1165	1160	1180	1190	1503	3.01	3.14	6.16	102	6.9
1345	SimAngus	846	700	1183	1350	1265	3.74	2.89	6.64	110	6.0
1346	Simmental	988	722	940	1185	1330	3.05	2.91	5.96	99	5.8
1347	SimAngus	1018	794	1073	1115	1305	2.57	2.84	5.40	90	5.2
1348	SimAngus	960	986	1310	1205	1435	4.24	3.64	7.88	131	7.4
1349	SimAngus	961	1030	1083	1190	1283	2.87	2.90	5.77	96	5.7
1350	SimAngus	895	790	1120	1190	1273	3.37	3.04	6.41	107	5.5
1351	SimAngus	983	968	1235	1205	1363	3.39	2.91	6.30	105	4.9

Test ID	Breed	Start Weight	28-Day Weight	56-Day Weight	84-Day Weight	Final Weight	Final ADG	Final WDA	Final Index	Final Index Ratio	Frame Score
1353	Simmental	845	822	993	1180	1165	2.86	2.93	5.78	96	5.2
1354	Simmental	893	1090	936	1285	1243	3.12	2.92	6.04	101	6.7
1355	SimAngus	941	1005	1103	1155	1293	3.14	2.90	6.04	101	5.3
1356	SimAngus	825	858	874	1175	1155	2.95	2.56	5.50	92	5.5
1357	SimAngus	917	888	1150	1165	1285	3.29	2.92	6.21	103	5.9
1358	Simmental	922	1110	906	1280	1338	3.71	3.13	6.83	114	7.0
1359	Simmental	975	868	971	1045	963	-0.11	2.01	1.91	32	4.8
1360	Simmental	866	1140	1128	1150	1283	3.72	2.78	6.49	108	6.3
1361	SimAngus	673	766	985	1070	997	2.89	2.74	5.63	94	4.9
1362	Simmental	1135	890	1163	1365	1493	3.19	3.35	6.55	109	6.0
1363	SimAngus	959	956	902	1225	1353	3.51	3.15	6.67	111	6.0
1364	SimAngus	894	1060	925	1135	1285	3.49	3.07	6.56	109	5.9
1365	SimAngus	889	1070	1138	1095	1225	3.00	2.94	5.94	99	5.0
1366	Simmental	941	1085	1025	858	1308	3.27	2.85	6.12	102	5.1
1367	SimAngus	791	1010	1135	1220	1153	3.23	2.86	6.09	101	4.9
1368	SimAngus	1045	1055	1135	1265	1395	3.13	3.16	6.28	105	5.5
1369	SimAngus	842	976	1155	1055	1228	3.44	2.94	6.39	106	4.7
1370	SimAngus	997	1195	1038	1320	1460	4.13	3.49	7.63	127	5.9
1371	SimAngus	977	864	822	940	1240	2.35	2.75	5.10	85	5.8
1372	SimAngus	920	1010	1188	1210	1278	3.19	2.95	6.14	102	6.0
1373	SimAngus	945	934	1033	892	1265	2.86	2.85	5.71	95	5.8
1374	SimAngus	924	1220	1088	1170	1313	3.47	2.92	6.39	106	6.0
1375	Simmental	1075	1030	1083	1060	1413	3.01	3.09	6.10	102	6.7
1376	SimAngus	1128	1005	870	694	1410	2.52	2.93	5.45	91	5.6
1377	SimAngus	896	916	1098	982	1250	3.16	2.78	5.94	99	6.7
1378	SimAngus	1078	802	1098	1035	1428	3.13	3.14	6.27	104	7.0
1379	Angus	775	1010	1178	1170	1128	3.15	2.97	6.12	102	5.6
1380	Angus	777	996	1073	1245	1188	3.67	3.06	6.73	112	6.3
1381	Angus	854	1065	1190	1220	1205	3.13	3.03	6.16	103	6.2
1382	Angus	848	1000	929	1105	1148	2.67	2.97	5.65	94	6.2
1383	SimAngus	851	1115	1060	1160	1255	3.61	3.08	6.68	111	6.1
1384	SimAngus	837	1055	1040	1195	1248	3.67	2.94	6.60	110	6.3
1385	Hereford	830	900	1030	934	1130	2.68	2.60	5.28	88	4.8
1386	Hereford	887	976	918	1130	1245	3.20	2.76	5.96	99	5.5
1387	Hereford	876	1140	1098	1070	1263	3.45	2.96	6.41	107	5.2
1388	Hereford	871	886	1188	1010	1253	3.41	2.96	6.37	106	5.8
1389	Hereford	957	858	965	1045	1308	3.13	3.06	6.19	103	5.4
1390	Hereford	833	956	836	1300	1173	3.03	2.81	5.84	97	6.6
1391	Hereford	924	1000	923	1080	1195	2.42	2.85	5.27	88	6.4
1392	Composite	900	1135	892	986	1190	2.59	2.71	5.30	88	6.8
1393	Angus	757	778	899	964	1063	2.73	2.38	5.11	85	3.7
1394	SimAngus	933	996	1218	1045	1300	3.28	2.97	6.24	104	6.0
1395	SimAngus	801	1085	677	1080	1063	2.33	2.41	4.74	79	3.9
1396	SimAngus	799	860	884	902	1068	2.40	2.80	5.20	87	4.9

Test ID	Breed	Start Weight	28-Day Weight	56-Day Weight	84-Day Weight	Final Weight	Final ADG	Final WDA	Final Index	Final Index Ratio	Frame Score
1397	SimAngus	684	978	780	978	977	2.62	2.51	5.12	85	4.9
1398	SimAngus	972	916	1088	1200	1338	3.26	3.19	6.46	107	5.7
1399	SimAngus	997	1110	957	1250	1305	2.75	2.85	5.60	93	6.5
1400	SimAngus	981	1025	978	1055	1240	2.31	3.03	5.34	89	5.7
1401	SimAngus	928	1075	1243	1270	1330	3.59	3.20	6.79	113	6.9
1402	SimAngus	967	968	1080	1185	1275	2.75	3.05	5.80	97	6.0
1403	SimAngus	921	890	1145	1230	1325	3.61	3.13	6.74	112	5.4
1404	Angus	932	794	1010	1310	1190	2.30	2.89	5.19	86	4.9
1405	Angus	785	886	961	1095	1040	2.28	2.65	4.92	82	4.8
1406	Braford	579	856	924	1110	905	2.91	2.62	5.53	92	5.5
1407	Braford	456	966	1265	1165	789	2.98	2.66	5.63	94	5.4
1408	Braford	552	754	1015	960	807	2.28	2.27	4.55	76	4.6
1409	Composite	772	610	840	752	1018	2.19	2.59	4.78	80	5.0
1410	Braford	652	1030	910	1015	947	2.63	2.52	5.15	86	5.7
1411	Composite	776	1095	1028	1090	1113	3.00	2.84	5.84	97	5.3
1412	Angus	965	968	1170	1410	1355	3.48	3.20	6.68	111	6.2
1413	Angus	1005	1060	1268	1155	1363	3.20	3.20	6.39	106	6.4
1414	Simmental	969	1045	1008	1245	1340	3.31	3.09	6.40	106	5.9
1415	Simmental	939	958	1118	1275	1268	2.93	3.02	5.95	99	5.6
1416	Angus	776	834	1020	1175	1083	2.74	2.50	5.24	87	3.6
1418	Angus	1005	1075	1265	1175	1443	3.91	3.09	7.00	116	6.4
1419	Angus	1003	1200	905	1225	1323	2.86	2.93	5.79	96	5.3
1420	Angus	884	1000	1113	1245	1223	3.02	2.72	5.74	95	5.8
1421	Angus	1000	780	1145	1245	1375	3.35	3.02	6.36	106	5.6
1422	Angus	952	878	1330	1305	1348	3.53	3.31	6.84	114	5.7
1423	Angus	916	1105	1358	1060	1318	3.58	2.88	6.46	108	6.1
1424	Angus	979	1165	946	1265	1408	3.83	3.29	7.11	118	6.4
1425	Angus	991	1225	1248	996	1403	3.67	3.12	6.79	113	5.2
1426	Angus	872	868	964	1230	1258	3.44	2.95	6.39	106	5.2
1427	Angus	1068	1115	1338	1320	1458	3.48	3.37	6.86	114	6.3
1428	Angus	721	1050	1013	996	1018	2.65	2.68	5.33	89	5.4
1429	SimAngus	861	1130	1233	1440	1315	4.05	3.07	7.12	118	6.0
1430	Simmental	1113	1065	1173	1285	1585	4.22	3.40	7.62	127	7.3
1431	Angus	772	828	1053	916	1008	2.10	2.30	4.40	73	5.3
1432	Angus	726	776	913	962	1000	2.45	2.29	4.74	79	4.3
1433	Angus	759	992	860	900	988	2.04	2.30	4.35	72	4.6
1434	Angus	668	856	1098	1150	1035	3.28	2.60	5.88	98	4.8
1435	Angus	708	836	779	964	988	2.50	2.31	4.81	80	4.1
1436	Angus	697	1060	1010	1250	1070	3.33	2.68	6.01	100	4.1
1437	Angus	721	1025	1090	892	1048	2.92	2.45	5.37	89	4.5
1438	Hereford	864	668	835	954	1055	1.71	2.51	4.22	70	5.0
1439	SimAngus	959	924	1208	1180	1283	2.89	3.19	6.08	101	6.2
1440	Charolais	923	1265	1100	1335	1428	4.50	3.19	7.70	128	7.5
1441	Charolais	732	966	889	1065	1070	3.02	2.52	5.54	92	6.1

Test ID	Breed	Start Weight	28-Day Weight	56-Day Weight	84-Day Weight	Final Weight	Final ADG	Final WDA	Final Index	Final Index Ratio	Frame Score
1442	Charolais	820	1135	1340	1295	1270	4.02	3.05	7.06	118	7.4
1443	Charolais	734	1000	1118	1065	1138	3.60	2.73	6.33	105	8.0
1444	Charolais	748	1145	1265	1165	1303	4.95	3.22	8.17	136	7.1
1445	Charolais	938	904	1188	1245	1360	3.77	3.13	6.89	115	6.3
1446	Charolais	835	1195	1170	1135	1313	4.26	3.13	7.39	123	5.9
1447	Charolais	692	932	1100	1065	1073	3.40	2.74	6.13	102	6.3
1448	Charolais	729	1265	970	1405	1158	3.83	2.67	6.49	108	6.7
1449	Charolais	740	918	1115	1230	1140	3.57	2.64	6.21	103	6.3