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Arkansas Cooperative Beef Bull Performance Test 1991

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ERRATA

Performance of Bulls on Arkansas Cooperative Beef Bull Performance Test 29
 M.W. Eaton, A.H. Brown Jr., J.A. Hornsby, R.W. Parham, J.D. Shockey, W.C. Loe
 Arkansas Agricultural Experiment Station Research Series 416

In Tables 2-5 of this publication, the names of participating bulls were erroneously listed under the heading "OWNER AND SIRE." Listed below are the sire names as they should have appeared.

Table 2, pages 4 - 7

Ear Tag No.	Sire	Ear Tag No.	Sire	Ear Tag No.	Sire
1	FLINT	21	TRUSTMARK	41	3F MR BAR 3J
2	FLINT	22	SPH PSR PHENOMENAL T38	42	MF KING KRUGERRAND 8021
3	FLINT	23	HJM ENFORCER 07X	43	CHR INSTIGATOR
4	3 BAR G RENO 511W	24	SPH PSR PHENOMENAL T38	44	DEWEY OF FLYING CROSS
5	SSF POLLED PACER 26U	25	BT MOHICAN TRADITION 530	45	SUPERMAN
6	CHALLENGER 35U	26	TRUSTMARK	46	MR T
7	RANGER PACESETTER 22	27	YYF HAMLETS SABRE	47	TND CHIEFTON 472 T
8	H POINT BLANK 5011	28	FAUST	48	BRITISH FUNDER
9	H POINT BLANK 5011	29	BRITTAS FURMOR	49	TND CHIEFTON 472 T
10	H POINT BLANK 5011	30	KING ARTHUR	50	PAYDAY
11	PERF 716V	31	SIMROL SALTBERG	51	EVERT DUPLICATOR
12	G C C MASTERS SON 8147	32	BENZ	52	BRITISH FUNDER
13	G C C MASTERS SON 8147	33	FAUST	53	JRM FRAMEWORK 821
14	EPH DRIVER 105T	34	SV BAVARIAN	54	TOP MSU KNIGHT RYDER
15	EPH DRIVER 105T	35	HEATHER'S C&BW	55	JRM FRAMEWORK 821
16	MR OAK	36	MC HACKENBERG JR	56	PAYDAY
17	GK ACE BIG SHOT	37	SCOTCH CAP	57	POLLED STAR PALM
18	GK ACE BIG SHOT	38	PS SASQUATCH 904	58	PAYDAY
19	TRUSTMARK	39	PREMIER TOP GUN	59	HEARTBEAT
20	BT BUTLER 452M	40	WINDSOR HICKORY HILL		

Table 3, pages 8 - 9

Ear Tag No.	Sire	Ear Tag No.	Sire	Ear Tag No.	Sire
1	ER POLLED MASTER	13	SV BAVARIAN	25	105
2	3 BAR G RENO G611 W	14	SV BAVARIAN	26	105
3	TWIN VALLEY SHOCKER 7163	15	FAUST	27	G MAN
4	IGLHOFF	16	HEATHER'S C&BW	28	105
5	IGLHOFF	17	M.C. UZZIAH U489	29	NOT AVAILABLE
6	IGLHOFF	18	TEX LI CHARGER 6017	30	SHAREHOLDER OF 3 BAR M
7	BENT ARMOURER	19	TEX LI CHARGER 6017	31	EXCEL OF BRINKS
8	HACKENBURG	20	TEX LI CHARGER 6017	32	BRINKS TINY 302P16
9	BENT ARMOURER	21	NOT AVAILABLE	33	TEXS RANGER 20T
10	HEATHER'S C&BW	22	TEX LI CHARGER 6017	34	MASON'S MAXON 59S
11	SV BAVARIAN	23	105	35	MASON'S MAXON 59S
12	MC HACKENBURG JR	24	SINGLE NICK DOUBLETIME	36	MASON'S MAXON 59S

Table 4, pages 10 - 11

Ear Tag No.	Sire	Ear Tag No.	Sire	Ear Tag No.	Sire
1	MR M-S C23	9	SHAREHOLDER OF 3-BAR-M	17	DOUBLE R EBONY WESTERN
2	JL STRETCH 4921	10	ZEIGFELD	18	DOUBLE R 734S
3	JL STRETCH 4921	11	QAS TRAVLER 23-4	19	DOUBLE R 989X
4	WR AMOROSAS GRAND G895	12	NICHOLS LANDMARK L56	20	DOUBLE R 989X
5	WR AMOROSAS GRAND G895	13	ELD JO BOB	21	BRINKS EXCEL 881W3
6	ELEUTHERA A-44	14	NOT AVAILABLE	22	BRINKS EXCEL 881W3
7	ELEUTHERA A-44	15	ROBINSON	23	BRINKS TINY 302P16
8	SCOTCH CAP	16	SWITZ POL BIG BUD		

Table 5, pages 12 - 15

Ear Tag No.	Sire	Ear Tag No.	Sire	Ear Tag No.	Sire
1	R & J MILKMAN	17	NOT AVAILABLE	32	MISS VISTA MT 2J
2	JRSF HEARTBEAT OF AMERICA	18	BRINKS TINY 302P16	33	PLCC 49EV MR SEVEN
3	NOT AVAILABLE	19	CYPLILY TINY 302 303X	34	NOT AVAILABLE
4	NOT AVAILABLE	20	BRINKS EXCEL 881W3	35	NOT AVAILABLE
5	COLUMBO	21	BRINKS TINY 302P16	36	NOT AVAILABLE
6	TATTENHALL ACHILLES	22	BRINKS TINY 302P16	37	NOT AVAILABLE
7	HY TEC	23	BRINKS TINY 302P16	38	C & H STAR PALM G3311
8	NOT AVAILABLE	24	BRINKS EXCEL 881W3	39	PAYDAY
9	NOT AVAILABLE	25	BRINKS TINY 302P16	40	PAPILLON
10	EXCEL OF BRINKS	26	BRINKS TINY 302P16	41	LUCKY
11	NOT AVAILABLE	27	WILDCARD	42	NOT AVAILABLE
12	ELEUTHERA A44	28	JT GERONIMO 78P	43	NOT AVAILABLE
13	DOR REGRET 4903	29	ABACUS PARK COCHISE	44	WC KODIAC
14	CRIMSON WARRIOR	30	PPF HARRY 660/6	45	HJD GILEAD 67K23
15	45/7	31	PPF HARRY 660/6	46	193N9
16	QUARTERBACK				

PERFORMANCE OF BULLS
ON ARKANSAS COOPERATIVE BEEF BULL
PERFORMANCE TEST 29

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**PERFORMANCE OF BULLS
ON ARKANSAS COOPERATIVE BEEF BULL
PERFORMANCE TEST 29**

**M.W. Eaton, A.H. Brown, J.A. Hornsby
R.W. Parham, J.D. Shockey and W.C. Loe.**

INTRODUCTION

Performance testing of beef bulls was initiated to improve productivity of Arkansas beef cattle through breeding. This cooperative testing program provides cattlemen with reliable information for identifying animals with superior breeding value for the traits of production measured in the test. By using the information as a basis for herd sire selection, a breeder can greatly increase the chances of obtaining a bull that will sire rapid-gaining, more efficient, high-quality calves. Such calves can increase profits for both the breeder and the feeder.

This testing program provides information that is useful to financial institutes in arranging their lending programs and to companies in developing their educational, promotional and marketing programs.

PROCEDURES FOR TESTING

Central testing stations were established in the fall of 1962 at the Beef Substation at Newport, Arkansas, the Southwest Research and Extension Center at Hope, Arkansas, and the Main Experiment Station at Fayetteville, Arkansas. In 1973, a test station at the Southeast Research and Extension Center at Monticello, Arkansas, was established. The facility at Newport was not used in this test. The facilities at Newport, Hope and Fayetteville are open pole-type structures. All four facilities have stalls for individual feeding. Equipment for measuring differences in performance traits is also provided.

In this test, bulls at the Main Experiment Station were fed from Nov. 12, 1990, to March 3, 1991; those at the Southwest Research and Extension Center were fed from Aug. 14, 1990, to Dec. 4, 1990, and from January 29, 1991, to May 21, 1991; and those at the Southeast Research and Extension Center were fed from October 29, 1990, to Feb. 20, 1991. The distribution of the bulls entered in the test is shown in Table 1.

The delivery date designated for each location allowed producers the opportunity to select bulls for testing so that age at the beginning of a test was between seven and ten months. However, exceptions were made in order to make more efficient use of testing resources (facilities, labor, etc.). Due to the exceptions, calf ages at the beginning of the test varied from 196 to 474 days.

Bulls delivered to the test stations were required to be from a certified brucellosis-free herd or to have tested negative for the disease within 30 days prior to delivery. Veterinary assistance was provided as needed throughout the test. A bull was removed from testing

Table 1. Summary of bulls entered in cooperative performance test 29.

Measure ¹	Fayetteville	Monticello	Hope	Total
Counties represented	12	11	18	41 ²
Herds represented	23	28	21	72 ²
Sire groups represented	43	38	37	118
Breeds represented				
Angus	5	1	5	11
Beefmaster		7		7
Brangus		14	7	21
Buelingo	1			1
Charolais	1	3	5	9
Charbray			2	2
Crossbred		1		1
Hereford	1		4	5
Limousin	1	3	1	5
Murray Gray		2		2
Pinzgauer	1			1
Polled Hereford	21	1		22
Polled Shorthorn	2			2
Red Brangus		3		3
Salers	2	1	1	4
Simbrah			2	2
Simmental	23	10	30	63
South Devon	1			1
TOTAL	59	46	57	162

¹ There was some duplication in the first three measures

² Includes one from Mississippi and two from Texas

if he did not adjust to management conditions associated with testing or if serious sickness or injury occurred.

On arrival at the test stations, bulls were weighed, identified by tattoo or brand and ear-tagged with a test identification number. Bulls were sorted into groups of 10 according to weight, and the groups were randomly assigned to exercise lots. Bulls in each of the groups remained together throughout the test. Individuals within groups were assigned to a feeding stall prior to the official test.

The bulls were given a 21-day period prior to the 112-day feeding trial to become adjusted to the new surroundings, feeding procedures and ration. This preliminary period also served to reduce the effects of previous treatment (feeding and management).

Following the preliminary period, calves were individually fed to the limit of their appetite (full-fed) twice daily in the same stall for 112 days. The procedure allowed each calf two hours of eating time in the early morning and again in the late afternoon. Portions were individually weighed, and the uneaten feed was weighed at the end of the day to provide records of consumption. A completely mixed ration prepared commercially from the same formula was fed at each location.

The formula consisted of the following: 700 lb cottonseed hulls, 900 lb of cracked corn, 200 lb of crimped oats, 150 lb of soybean meal, 150 lb of cottonseed meal, 21 lb of calcium carbonate and 1000 units vitamin A/lb feed. As formulated, the diet contained 1.6 Mcal NE_m, .9 Mcal NE_g, and 12% CP per kg DM. Satisfactory palatability and performance with a minimum of digestive disturbances were noted. When not in feeding stalls, calves had access to fresh water and a mineral mixture. The mineral mixture contained calcium, phosphorus and a commercial trace-mineralized salt.

Weights were taken at the beginning of the test and at 28-day intervals thereafter. All weights were partially shrunk since calves were weighed immediately before the morning feeding and had not been allowed access to water since the evening feeding of the previous day. Summaries of records in this report are based on beginning and final weights.

Gain and feed consumption data were used to calculate feed-gain ratios. These ratios were adjusted for the effects of difference in initial test weights within-breed using a previously calculated coefficient of regression.

Height at the hips was recorded at the 84-day weigh period when the average age of bulls in the test was nearest 365 days. The height measurement for each bull was standardized to 365 days of age using a previously calculated coefficient of regression.

Records reported contain identification of each bull by ear-tag number, tattoo or brand and by his sire and owner. To aid in evaluating the records, the birthdate and initial test age in days are provided for each bull. The performance data reported are for the 112-day test period.

RESULTS OF THE TEST

Records of performance for each of the bulls tested are presented in Tables 2, 3, 4 and 5. Detailed information concerning factors influencing performance is contained in the report on performance test 10 (Report Series 201) and in two bulletins on the records of the first and second 10 years of testing (Bulletins 794 and 889, respectively). Additional information on factors influencing height at the hips is contained in Bulletin 890. These publications are available from the Arkansas Agricultural Experiment Station on request.

FUTURE TESTS

These tests will be continued. Breeders who have bulls they wish to nominate for performance testing should obtain a copy of Arkansas Agricultural Experiment Station leaflet entitled "University of Arkansas Central Station Beef Bull Testing" for detailed information on procedures.

Table 2. Identification of bulls tested and bull performance, Nov. 12, 1990, to March 3, 1991, Main Experiment Station, Fayetteville, Arkansas.

Ear Tag No.	Owner and Sire	Brand or Tattoo	Birth date ¹	Initial test		Performance Data ²							
				Age (days)	Wt. (lb)	365-day Wt. (lb)	Height at hips (365-day) (in)	Final test Wt. (lb)	ADG on test (lb)	Wt/day of age (lb)	Avg. daily feed (lb)	Feed Conversion (lb feed/lb gain)	
												Actual	Adj.
LUTHER FARMS, FAYETTEVILLE, AR 72701--POLLED HEREFORD													
1	FLINT VICTOR 29Z	29	2/22	263	490	827	47.7	850	3.21	2.27	22.3	6.92	7.54
2	FLINT VICTOR 10Z	10/12	2/24	261	510	920	49.6	940	3.84	2.52	23.0	6.00	6.50
3	FLINT VICTOR 12Z	12	3/08	249	450	829	48.5	820	3.30	2.27	19.9	6.01	5.65
TOMMY GOODWIN, PITTSBURG, TX 75686--SIMMENTAL													
4	GSR CASINO 106Z	G106Z	1/22	294	685	899	52.2	1000	2.81	2.46	21.6	7.67	8.11
GABBARD SALERS FARM, PRAIRIE GROVE, AR 72753--SALERS													
5	GSF FASTTRACK 14Z	14Z	4/11	215		REMOVED FROM TEST							
6	GSF CHALLENGER 11Z	11Z	3/01	256	710	992	52.7	1000	2.59	2.72	19.1	7.37	5.24
WALNUT GROVE FARM, SILOAM SPRINGS, AR 72761--HEREFORD													
7	WFG RANGER 0007	0007	1/23	293	610	969	51.3	1075	4.15	2.65	23.6	5.68	5.68
H.H. SIMMONS, FAYETTEVILLE, AR 72703--POLLED HEREFORD													
8	SSF GOLD POINT 011	011	2/18	267	625	987	50.1	1025	3.57	2.70	20.9	5.84	5.65
9	SSF GOLD POINT 003	003	2/10	275	570	943	50.1	1000	3.84	2.58	22.3	3.44	5.94
10	SSF GOLD POINT 009	009	2/13	272	650	979	48.6	1030	3.39	2.68	23.5	3.47	6.58
MIKE PRICE, FAYETTEVILLE, AR 72701--LIMOUSIN													
11	BLACKWAVE 9011Y	9011	2/26	259	785	1107	52.9	1125	3.04	3.03	22.7	7.49	7.49
ROBERTS ANGUS RANCH, GREEN FOREST, AR 72638--ANGUS													
12	EMULOUS MASTER 400JFR	400	2/26	259	590	974	50.0	990	3.57	2.67	19.7	7.18	7.18
13	EMULOUS MASTER 230JFR	230	2/14	271	625	953	48.6	1000	3.35	2.67	21.1	7.65	7.44

SUGG HEREFORD RANCH, HUNTSVILLE, AR 72740--POLLED HEREFORD													
14	SHR DRIVER DO19	DO19	3/20	237	560	1020	49.4	975	3.71	2.79	22.2	5.96	6.16
15	SHR DRIVER DO15	DO15	3/17	240	525	907	48.3	875	3.13	2.49	24.6	6.31	6.72
COUNTS PINZGAUER FARM, LOWELL, AR 72745--PINZGAUER													
16	COUNTS RED OAK	1Z	1/19	297	720	884	51.6	990	2.41	2.42	23.8	8.76	8.76
SPRINGBROOK RANCH, GRAVETTE, AR 72736--POLLED HEREFORD													
17	PSR GUNFIGHTER 021	021	3/26	231	625	1070	52.6	1005	3.39	2.93	22.2	6.55	6.36
18	PSR SHOOTIST 008	008	3/04	253	715	1115	51.5	1115	3.57	3.05	24.6	6.88	6.15
WILLIAMS POLLED HEREFORD, ROGERS, AR 72756--POLLED HEREFORD													
19	NOT AVAILABLE ³	13Z	4/10	216	630	1191	55.1	1070	3.93	3.26	23.8	6.05	5.83
20	NOT AVAILABLE ³	12Z	4/03	223	570	1122	50.3	1030	4.11	3.07	24.5	5.98	6.12
MCDANIEL POLLED HEREFORD, BENTONVILLE, AR 72712--POLLED HEREFORD													
21	HAWK TRUSTMARK 793Z	793Z	2/27	258	515	858	49.8	870	3.17	2.35	20.3	6.39	6.86
22	SPH TARGET 160Z	160Z	4/22	204	610	1115	51.5	965	3.17	3.05	21.1	6.66	6.56
SCHMIEGELOW FARMS, ROGERS, AR 72756--POLLED HEREFORD													
23	SPH FORCE 154Z	154Z	3/21	236	650	1158	53.1	1075	3.79	3.09	25.0	6.60	6.26
24	SPH PHENOMENAL 152Z	152Z	3/07	250	655	1059	52.0	1050	3.53	2.90	21.9	6.20	5.83
25	SPH TRADITION 148Z	148Z	2/23	262	700	1059	54.7	1085	3.44	2.90	21.0	6.10	5.46
26	SPH TRUSTY 147Z	147Z	2/15	270	735	1099	52.1	1150	3.71	3.01	23.4	6.32	5.47
MILLE-CENT RANCH, MINERAL WELLS, TX 76067--SIMMENTAL													
27	NOT AVAILABLE ³	7X	2/22	263	800	1115	52.7	1145	3.08	3.05	22.0	7.14	6.89
28	NOT AVAILABLE ³	Z002	1/24	292	755	1030	51.7	1140	3.44	2.82	26.5	7.72	7.74
29	NOT AVAILABLE ³	Z001	1/06	310	850	1090	51.9	1260	3.66	2.99	26.7	7.29	6.74
30	NOT AVAILABLE ³	Z146	3/08	249	745	1168	52.3	1155	3.66	3.20	25.6	6.99	7.07
31	NOT AVAILABLE ³	Z006	2/05	280	685	1006	52.1	1080	3.53	2.76	24.0	6.82	7.26
32	NOT AVAILABLE ³	Z103	2/03	282	870	1204	51.7	1300	3.84	3.30	26.7	6.97	6.29
33	NOT AVAILABLE ³	Z101	1/31	285	760	984	51.4	1070	2.77	2.70	23.2	8.39	8.38
34	NOT AVAILABLE ³	Z009	2/10	275	650	1023	53.4	1085	3.88	2.80	23.5	6.04	6.69
35	NOT AVAILABLE ³	Z124	2/17	268	750	1100	53.0	1145	3.53	3.01	25.5	7.24	7.29
36	NOT AVAILABLE ³	Z005	2/03	282	705	1033	50.8	1115	3.66	2.83	26.3	7.19	7.51
MARTIN ANGUS RANCH, GUY, AR 72061--ANGUS													
37	NOT AVAILABLE ³	1790	2/09	276	625	997	50.3	1060	3.88	2.73	25.9	6.67	6.46

Continued.

Table 2 continued.

Ear Tag No.	Owner and Sire	Brand or Tattoo	Birth date ¹	Initial test		365-day Wt. (lb)	Height at hips (365-day) (in)	Final test Wt. (lb)	Performance Data ²			Feed Conversion (lb feed/lb gain)	
				Age (days)	Wt. (lb)				ADG on test (lb)	Wt/day of age (lb)	Avg. daily feed (lb)	Actual	Adj.
STAIR ANGUS FARM, DRASCO, AR 72530--ANGUS													
38	J C S SASQUATCH 50	681	3/21	236	545	1054	49.1	1005	4.11	2.89	24.6	5.98	6.25
39	J C S TOP GUN 140	690	4/04	222	565	1022	52.1	935	3.30	2.80	22.7	6.88	7.03
WINDSOR HILLS FARM, MARSHALL, AR 72650--POLLED SHORTHORN													
40	WINDSOR HICKORY CONE	65	3/09	248	600	1019	52.1	1005	3.62	2.79	24.0	6.62	6.77
41	WINDSOR MANUS J	639	2/26	259	650	1008	50.1	1025	3.35	2.76	24.7	7.38	7.23
STARKEY'S SOUTHFORK RANCH, HARRISON, AR 72601--CHAROLAIS													
42	SS STARKEYS MR WILL PLD 015		3/14	243	690	1095	54.1	1065	3.35	3.00	21.1	6.30	6.30
BONITA VALLEY FARMS, ALPENA, AR 72611--SOUTH DEVON													
43	BVP LIBERTY MAGNATE	41Z	3/20	237	690	1077	53.7	1030	3.04	2.95	19.8	6.51	6.51
V-3 FARMS, FORT SMITH, AR 72901--BUELINGO													
44	PROPHET OF V-3 FARMS	Z001	4/10	216	450	968	49.6	870	3.75	2.65	22.6	6.03	6.03
JOE COWAN, FAYETTEVILLE, AR 72701--SIMMENTAL													
45	SUPER T 35	85Y	12/10	337	835	1049	53.0	1290	4.06	2.87	27.9	6.86	6.40
46	MT BWF T	84Y	12/01	346	885	1068	53.7	1340	4.06	2.93	29.9	7.34	6.58
COLE RANCH, RUSSELLVILLE, AR 72801--SIMMENTAL													
47	Z22	Z22	2/23	262	885	1254	55.8	1285	3.57	3.44	28.2	7.90	7.14
48	Z45	Z45	4/21	205	700	1186	51.5	1030	2.95	3.25	21.3	7.22	7.56
49	Z20	Z20	2/21	264	845	1194	54.4	1230	3.44	3.27	27.2	7.91	7.39
50	Z35	Z35	4/04	222	785	1322	55.3	1210	3.79	3.62	25.0	6.58	6.42
51	Z44	Z44	4/20	206	640	1182	53.3	1030	3.48	3.24	20.8	5.97	6.68
52	Z55	Z55	4/29	197	680	1282	53.4	1085	3.62	3.51	22.5	6.22	6.69

HARP FARMS, SPRINGDALE, AR 72764--POLLED HEREFORD

53	HARP FRAMEWORK Z21	Z21	4/11	215	555	1116	49.4	1000	3.97	3.06	24.9	6.26	6.49
54	HARP KNIGHT RYDER Z7	Z7	3/10	247	545	991	51.6	975	3.84	2.72	21.7	5.65	5.94
55	HARP FRAMEWORK Z19	Z19	4/02	224	580	1124	51.0	1035	4.06	3.08	24.0	5.91	5.99

COLE RANCH, RUSSELLVILLE, AR 72801--SIMMENTAL

56	Z21	Z21	2/21	264	975	1243	58.2	1280	2.72	3.40	24.5	8.98	7.68
57	Z54	Z54	4/27	199	640	1203	53.3	1025	3.44	3.30	23.7	6.90	7.61
58	Z37	Z37	4/05	221	645	1052	52.3	960	2.81	2.88	20.6	7.33	8.01
59	Z30	Z30	3/18	239	670	1118	53.6	1075	3.62	3.06	22.1	6.10	6.63

¹ The December birthday is 1989; all others are 1990.

² The 365-day weight = 365 (final test wt/age in days). Height at hips is standardized to 365 days using the formula: height at hips (365-day) = measured height at 84 days on test - 0.0273 (actual age at 84 days on test - 365). ADG (average daily gain), wt/day of age, avg daily feed and feed conversion were calculated at the end of the 112-day test. Adjusted feed conversion = actual feed conversion - 0.006 (initial wt on test - within-breed avg. initial wt).

³ Missing sire information not supplied by owner.

Table 3. Identification of bulls tested and bull performance, Aug. 14, 1990, to Dec. 4, 1990, Southwest Research and Extension Center, Hope, Arkansas.

Ear Tag No.	Owner and Sire	Brand or Tattoo	Birth date ¹	Initial test		Performance Data ²							
				Age (days)	Wt. (lb)	365-day Wt. (lb)	Height at hips (365-day) (in)	Final test Wt. (lb)	ADG on test (lb)	Wt/day of age (lb)	Avg. daily feed (lb)	Feed Conversion (lb feed/lb gain)	
												Actual	Adj.
TOMMY GOODWIN, PITTSBURG, TX 75686--SIMMENTAL													
1	GSR MASTER LINUS 3Y	G3Y	9/19	329	680	917	50.2	1108	3.82	2.51	24.8	6.48	6.95
2	GSR VEGAS 7Y	GO7Y	11/03	284	638	981	50.8	1064	3.80	2.69	22.5	5.91	6.63
T-BAR RANCH, ASHLAND MS 38603--ANGUS													
3	TBAR BABS SHOCKER TBO8	TBO8	11/20	267	606	1009	48.8	1048	3.95	2.77	23.9	6.06	6.06
MILLE-CENT RANCH, MINERAL WELLS, TX 76067--SIMMENTAL													
4	NOT AVAILABLE ³	YO6	8/21	358	936	1185	51.4	1526	5.27	3.25	32.6	6.20	5.13
5	NOT AVAILABLE ³	YN11	9/21	327	780	1034	50.1	1244	4.14	2.83	28.3	6.84	6.70
6	NOT AVAILABLE ³	Y29	8/19	360	840	987	49.3	1276	3.89	2.70	27.1	6.96	6.46
7	NOT AVAILABLE ³	Y208	8/13	366	898	1089	53.7	1426	4.71	2.98	30.5	6.46	5.62
8	NOT AVAILABLE ³	Y60	8/21	358	816	REMOVED FROM TEST							
9	NOT AVAILABLE ³	Y367	8/02	377	934	1055	51.5	1414	4.29	2.89	30.4	7.09	6.03
10	NOT AVAILABLE ³	Y18A	9/25	323	716	1071	51.4	1276	5.00	2.93	29.9	5.98	6.22
11	NOT AVAILABLE ³	Y65	8/09	370	890	1006	50.6	1328	3.91	2.76	30.3	7.75	6.96
12	NOT AVAILABLE ³	YS16	10/04	314	726	1045	51.8	1220	4.41	2.86	27.3	6.19	6.38
13	NOT AVAILABLE ³	Y102	8/18	361	788	982	50.4	1272	4.32	2.69	28.8	6.66	6.47
14	NOT AVAILABLE ³	Y116	8/01	378	908	1037	50.8	1392	4.32	2.84	31.1	7.19	6.29
15	NOT AVAILABLE ³	Y856	10/19	299	688	1073	52.6	1208	4.64	2.94	25.5	3.14	5.91
16	NOT AVAILABLE ³	Y31	9/23	325	796	1161	52.5	1390	5.30	3.18	31.7	5.98	5.75
17	NOT AVAILABLE ³	Y93	11/08	279	640	1085	50.7	1162	4.66	2.97	26.3	5.65	6.35
NED PURTLE & SON, HOPE, AR 71801--HEREFORD													
18	PF CHARGER 043	043	11/01	286	746	1025	49.4	1118	3.32	2.81	23.1	6.96	7.08
19	PF CHARGER 027	027	10/24	294	816	1100	51.0	1224	3.64	3.01	24.7	6.79	6.49
20	PF CHARGER 021	021	10/21	297	734	994	49.7	1114	3.39	2.72	24.7	7.27	7.47
22	PF CHARGER 044	044	11/1	286	768	1168	50.3	1274	4.52	3.20	27.1	6.01	6.00

KOEN FARMS, HOPE, AR 71801--SIMMENTAL

23	9406	K9406	11/30	257	672	1104	52.0	1116	3.96	3.02	26.6	6.70	7.21
24	9408	K9408	11/01	286	666	1040	52.3	1134	4.18	2.85	24.1	5.76	6.31
25	9417	K9417	10/23	295	622	917	50.1	1022	3.57	2.51	23.8	6.68	7.49
26	9422	K9422	10/26	292	658	947	50.6	1048	3.48	2.59	22.6	6.49	7.09
27	9409	K9409	10/25	293	670	990	49.3	1098	3.82	2.71	24.5	6.42	6.94
28	9502	K9502	11/18	269	640	985	49.5	1028	3.46	2.70	22.8	6.58	7.29

JJJ RANCH, NASHVILLE, AR 71852--BLONDE D'ACQUITAINE

29	RAMBO RANGER	JJJY01	11/24	263									
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 REMOVED FROM TEST

3 BAR M INC., JACKSONVILLE, AR 72076--BRANGUS

30	MOODY'S SHAREHOLDER	302Y	10/11	307	806	1028	53.3	1180	3.34	2.82	26.0	7.79	8.28
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CYPRESS LILY BRANGUS, MARVELL, AR 72366--BRANGUS

31	BRINKS EXCEL 71Y24	71Y24	9/05	343	746	918	52.0	1144	3.55	2.51	26.8	7.54	8.39
32	CYPLILY TINY-302 912Y	912Y	4/27	474	1112	973	53.0	1562	4.02	2.67	33.6	8.36	7.01

DEVOE BOLLINGER, HORATIO, AR 71842--LIMOUSIN

33	DMCB GOLDENVIEW GIGOLO	DMCB103	11/01	286	694	1029	51.7	1122	3.82	2.82	22.1	5.78	5.78
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SHALLOW CREEK RANCH, BARLING, AR 72923--SIMMENTAL

34	SCR ESQUIRE	Y69	10/01	317	830	1030	54.6	1210	3.39	2.82	26.8	7.89	7.45
35	SCR POLLED MAX	Y59	9/16	332	750	1006	52.7	1224	4.23	2.76	29.8	7.05	7.10
36	SCR POWERLINE	Y68	11/13	274	756	1205	55.5	1274	4.63	3.30	30.7	6.64	6.65

¹ All birthdates are 1989.

² The 365-day weight = 365 (final test wt/age in days). Height at hips is standardized to 365 days using the formula: height at hips (365-day) = measured height at 84 days on test - 0.0273 (actual age at 84 days on test - 365). ADG (average daily gain), wt/day of age, avg daily feed and feed conversion were calculated at the end of the 112-day test. Adjusted feed conversion = actual feed conversion - 0.006 (initial wt on test - within-breed avg. initial wt).

³ Missing sire information not supplied by owner.

Table 4. Identification of bulls tested and bull performance, Jan. 29, 1991, to May 21, 1991, Southwest Research and Extension Center, Hope, Arkansas.

Ear Tag No.	Owner and Sire	Brand or Tattoo	Birth date ¹	Initial test		365-day Wt. (lb)	Height at hips (365-day) (in)	Final test Wt. (lb)	ADG on test (lb)	Wt/day of age (lb)	Performance Data ²		
				Age (days)	Wt. (lb)						Avg. daily feed (lb)	Feed Conversion (lb feed/lb gain) Actual Adj.	
M-S CHAROLAIS RANCH, BRADFORD, AR 72020--CHAROLAIS													
1	NOT AVAILABLE ³	759	3/10	325	598	937	48.8	1122	4.68	2.57	26.1	5.58	5.99
2	NOT AVAILABLE ³	768	5/05	269	550	975	51.2	1018	4.18	2.67	22.2	5.31	6.01
3	NOT AVAILABLE ³	769	5/05	269	482	933	49.0	974	4.39	2.56	22.0	5.01	6.12
CIRCLE S FARMS, EL DORADO, AR 71730--CHARBRAY													
4	CURT 0608	0608	4/28	276	704	1018	52.2	1082	3.38	2.79	22.7	6.72	6.99
5	MR MUCHO 0586	0586	3/10	325	794	946	52.1	1132	3.02	2.59	24.5	8.12	7.85
CIRCLE S FARMS, EL DORADO, AR 71730--CHAROLAIS													
6	ROI LE 0583	0583	3/06	329	820	995	49.2	1202	3.41	2.73	26.0	7.64	6.72
7	MELV 0568	0568	2/24	339	884	994	51.4	1228	3.07	2.72	25.4	????	6.95
MARTIN ANGUS RANCH, GUY, AR 72061--ANGUS													
8	M A R 2090	2090	3/19	316	724	924	48.8	1084	3.21	2.53	26.6	8.27	8.10
SHADY OAK FARMS, CABOT, AR 72023--BRANGUS													
9	NOT AVAILABLE ³	4340	4/08	296	866	REMOVED FROM TEST							
VINERS ANGUS, BENTON, AR 72015--ANGUS													
10	ZIEGFELD LAD 288	V288	4/26	278	648	1005	51.3	1074	3.80	2.75	25.4	6.67	6.95
11	VAF TRAVLER LAD 268	V268	3/22	313	626	934	49.5	1088	4.13	2.56	27.2	6.60	7.01
BAILEY ANGUS FARM, RUSSELLVILLE, AR 72801--ANGUS													
12	C R LAND RUSTLER B62	B62	3/09	326	780	933	48.9	1120	3.04	2.56	26.4	8.68	8.17
STAR H RANCH, GREERS FERRY, AR 72067--SIMMENTAL													
13	NOT AVAILABLE ³	4	4/14	290	672	1119	53.7	1232	5.00	3.06	25.8	5.17	4.95

STAR H RANCH, GREERS FERRY, AR 72067--SIMBRAH													
14	NOT AVAILABLE ³	33	3/25	310	674	1050	52.8	1214	4.82	2.88	27.2	5.64	5.24
STAR H RANCH, GREERS FERRY, AR 72067--SALERS													
15	NOT AVAILABLE ³	359	4/24	280	482	810	49.9	870	3.46	2.22	22.1	6.39	6.39
FRACHISEUR RANCH, GRANNIS, AR 71944--SIMMENTAL													
16	DEF BUD LITE	005Z	4/15	289	596	1030	52.2	1132	4.79	2.82	27.1	5.66	5.90
ROBBINS RANCH, MENA, AR 71953--SIMBRAH													
17	DOUBLE R 787Z	787Z	4/27	277	540	9066	50.6	966	3.80	2.48	20.3	????	5.75
ROBBINS RANCH, MENA, AR 71953--SIMMENTAL													
18	DOUBLE R 11Z	11Z	5/23	251	656	1146	52.1	1140	4.32	3.14	24.3	5.63	5.51
19	DOUBLE R 743Z	743Z	5/03	271	686	1127	52.9	1182	4.43	3.09	26.5	5.99	5.69
20	DOUBLE R 47Z	47Z	5/04	270	566	982	51.0	1028	4.13	2.69	24.5	5.94	6.36
CYPRESS LILY BRANGUS, MARVELL, AR 72366--BRANGUS													
21	WOOTENS B EXCEL 751Z2	751Z2	4/02	302	756	989	50.4	1122	3.27	2.71	26.1	7.99	7.84
22	WOOTENS B EXCEL 859Z3	859Z3	5/01	273	612	952	51.9	1004	3.50	2.61	23.0	6.58	7.29
23	WOOTENS TINY 302 303Z1	303Z1	4/03	301	692	967	50.9	1094	3.59	2.65	25.4	7.08	7.32

¹ All birthdates are 1989.

² The 365-day weight = 365 (final test wt/age in days). Height at hips is standardized to 365 days using the formula: height at hips (365-day) = measured height at 84 days on test - 0.0273 (actual age at 84 days on test - 365). ADG (average daily gain), wt/day of age, avg daily feed and feed conversion were calculated at the end of the 112-day test. Adjusted feed conversion = actual feed conversion - 0.006 (initial wt on test - within-breed avg. initial wt).

³ Missing sire information not supplied by owner.

Table 5. Identification of bulls tested and bull performance, Oct. 29, 1990, to Feb. 20, 1991, Southeast Research and Extension Center, Monticello, Arkansas.

Ear Tag No.	Owner and Sire	Brand or Tattoo	Birth date ¹	Initial test		Performance Data ²							
				Age (days)	Wt. (lb)	365-day Wt. (lb)	Height at hips (365-day) (in)	Final test Wt. (lb)	ADG on test (lb)	Wt/day of age (lb)	Avg. daily feed (lb)	Feed Conversion (lb feed/lb gain)	
												Actual	Adj.
SNIDER & LEWIS ANGUS FARM, CARLISLE, AR 72024--ANGUS													
1	S & L MILKMAN 23	230	1/05	297	800	1040	53.1	1165	3.26	2.85	30.0	9.20	9.20
HIDDEN SPRINGS RANCH, MT. VERNON, AR 72111--SIMMENTAL													
2	HIDDEN HEARTBEAT	Z3	3/06	237	930	1501	56.6	1435	4.51	4.11	26.1	8.00	6.78
JERRY EUBANKS, WILMAR, AR 71675--BEEFMASTER													
3	NOT AVAILABLE ³	N.A. ³	12/15	318	770	900	48.6	1060	2.59	2.47	24.5	9.47	8.85
4	NOT AVAILABLE ³	N.A. ³	3/27	216	570	957	50.4	860	2.59	2.62	17.4	6.70	7.28
DAVE KNIGHT, WILMAR, AR 71675--BEEFMASTER													
5	DIABLO	4/9	10/26	368	660	696	47.5	915	2.28	1.91	19.6	8.61	8.65
VANDEBURG SIMMENTAL FARM, CABOT, AR 72023--SIMMENTAL													
6	NOT AVAILABLE ³	Z13	2/27	244	730	1210	51.5	1180	4.02	3.31	25.8	6.42	6.41
CIRCLE R RANCH, CROSSETT, AR 71635--SALERS													
7	FWR HY-CALIBER OIY	FWROIY	12/30	303	735	950	55.6	1080	3.08	2.60	25.9	8.10	8.10
US RANCH, WARREN, AR 71671--CROSSBRED													
8	NOT AVAILABLE ³	N.A. ³	1/25	277	890	1103	52.6	1175	2.54	3.02	27.1	10.67	10.67
TRIPLE T RANCH, WARREN, AR 71671--SIMMENTAL													
9	NOT AVAILABLE ³	Z20	3/05	238	680	1184	53.1	1135	4.06	3.24	28.3	6.96	7.25
HAYDEN FARMS, MONTICELLO, AR 71655--BRANGUS													
10	ARNOLDS EXCEL 34Y2	34Y2	11/10	353	865	934	55.7	1190	2.90	2.56	31.0	10.70	9.06

J.R. YOUNG BEEFMASTERS, WARREN, AR 71671--BEEFMASTER

11	NOT AVAILABLE ³	03	11/15	348	800	936	49.9	1180	3.39	2.57	28.7	8.44	7.64
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CIRCLE S CHAROLAIS FARMS, EL DORADO, AR 71730--CHAROLAIS

12	MAGIC	0582	3/05	238	650	1048	52.9	1005	3.17	2.87	22.7	7.15	7.24
13	ELVIS	0562	2/15	256	745	1200	51.3	1210	4.15	3.29	29.9	7.20	6.72

ROCKING G RANCH, MONTICELLO, AR 71655--BEEFMASTER

14	NOT AVAILABLE ³	0/32	1/05	297	750	888	51.3	995	2.19	2.43	21.6	9.89	9.38
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BILLY WEBB, MONTICELLO, AR 71655--BEEFMASTER

15	NOT AVAILABLE ³	10/0	3/24	219	490	877	49.4	795	2.72	2.40	19.3	7.07	8.13
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AVERY LIMOUSIN, PARKDALE, AR 71661--LIMOUSIN

16	NOT AVAILABLE ³	171Y	1/10	292	635	949	49.2	1050	3.71	2.60	25.1	6.77	6.92
17	NOT AVAILABLE ³	163X	10/20	374	815	928	50.0	1235	3.75	2.54	27.8	7.41	6.48

CYPRESS LILY BRANGUS, MARVELL, AR 72366--BRANGUS

18	NOT AVAILABLE ³	138Z	3/24	219	635	1048	52.9	950	2.81	2.87	23.7	8.43	8.17
19	NOT AVAILABLE ³	68Z1	3/12	231	545	942	51.0	885	3.04	2.58	23.1	7.61	7.89
20	NOT AVAILABLE ³	859Z1	3/23	220	475	1050	51.2	955	4.29	2.88	23.8	5.55	6.26
21	NOT AVAILABLE ³	81Z	4/08	201	515	1051	53.2	910	3.53	2.88	19.7	5.58	6.05
22	NOT AVAILABLE ³	44Z	3/30	213	520	988	51.5	880	3.21	2.71	22.5	7.00	7.43
23	NOT AVAILABLE ³	74Z	4/05	207	535	1121	51.1	980	3.97	3.07	24.0	6.04	6.39
24	NOT AVAILABLE ³	428Z	3/31	212	525	1020	52.0	905	3.39	2.79	23.4	6.88	7.28
25	NOT AVAILABLE ³	751Z1	3/14	229	650	1044	50.8	975	2.90	2.86	20.9	7.21	6.86
26	NOT AVAILABLE ³	68Z3	3/24	219	490	998	51.8	905	3.71	2.73	22.3	6.00	6.62
27	NOT AVAILABLE ³	839Z	2/07	264	585	927	53.4	955	3.84	2.54	26.0	6.77	7.17

ABACUS PARK, YELLVILLE, AR 72687--MURRAY GREY

28	ABACUS PARK RINGO	Y150	2/07	264	525	820	47.7	845	2.86	2.25	21.0	7.36	7.70
29	ABACUS PARK ALBERT	Y149	2/05	266	640	966	47.8	1000	3.21	2.65	25.2	7.83	7.49

McMANUS FARMS, CAMDEN, AR 71701--RED BRANGUS

30	NOT AVAILABLE ³	17	2/27	244	760	1205	56.5	1175	3.71	3.30	26.6	7.17	7.14
31	NOT AVAILABLE ³	3	1/30	272	900	1150	54.2	1210	2.77	3.15	28.7	10.38	9.51

Continued.

Table 5 continued.

Ear Tag No.	Owner and Sire	Brand or Tattoo	Birth date ¹	Initial test		365-day Wt. (lb)	Height at hips (365-day) (in)	Final test Wt. (lb)	Performance Data ²			Feed Conversion	
				Age (days)	Wt. (lb)				ADG on test (lb)	Wt/day of age (lb)	Avg. daily feed (lb)	(lb feed/lb gain)	Actual
ESTELLE FARMS, HAMBURG, AR 71646--RED BRANGUS													
32	NOT AVAILABLE ³	19	4/16	196	605	978	50.7	825	1.96	2.68	18.0	9.17	10.07
DALC, STAR CITY, AR 71667--LIMOUSIN													
33	DALC'S JOHN HENRY	001Y	3/28	215	530	1044	50.7	935	3.26	2.86	20.7	5.72	6.50
C & H SIMMENTAL, ATKINS, AR 72823--SIMMENTAL													
34	NOT AVAILABLE ³	N.A. ³	1/01	301	840	1087	54.6	1230	3.48	2.98	30.9	8.87	8.19
35	NOT AVAILABLE ³	N.A. ³	2/18	253	590	980	49.7	980	3.48	2.68	25.4	7.30	8.13
36	NOT AVAILABLE ³	N.A. ³	4/10	202	625	1302	53.5	1120	4.42	3.57	30.7	6.94	7.56
37	NOT AVAILABLE ³	N.A. ³	2/18	253	660	1055	50.3	1055	3.53	2.89	25.0	6.97	7.38
TRIPLE R SIMMENTAL, DOVER, AR 72837--SIMMENTAL													
38	3R HARRISON	U4Z	1/05	297	860	1214	53.6	1360	4.46	3.33	31.1	6.97	6.18
H & R RANCH, WARREN, AR 71671--SIMMENTAL													
39	NOT AVAILABLE ³	Z29	3/18	225	750	1235	53.7	1140	3.48	3.38	24.6	7.06	6.93
CHARDIC SIMMENTAL, DOVER, AR 72837--SIMMENTAL													
40	LADD CD	065Z	3/03	240	610	1047	53.5	1010	3.57	2.87	25.6	7.18	7.88
WYNN FARMS, STAR CITY, AR 71667--BEEFMASTER													
41	NOT AVAILABLE ³	41	12/16	317	625	825	49.9	970	3.08	2.26	21.6	7.01	7.26
JOE CARMICAL, MONTICELLO, AR 71655--BRANGUS													
42	NOT AVAILABLE ³	HF08	3/07	236	585	876	47.6	835	2.23	2.40	20.0	8.97	9.01

HAYGOOD FARMS, WARREN, AR 71671--BRANGUS

43	NOT AVAILABLE ³	HF43	1/05	297	730	919	51.8	1030	2.68	2.52	26.1	9.74	8.92
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UNIVERSITY OF ARKANSAS, MONTICELLO, AR 71655--CHAROLAIS

44	WC KODIAC 8070P	9003	2/28	243	600	1054	51.2	1025	3.79	2.89	25.2	6.64	7.03
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UNIVERSITY OF ARKANSAS, MONTICELLO, AR 71655--POLLED HEREFORD

45	RHF 143 VICTOR 5051	9048	4/04	208	475	947	47.6	830	3.17	2.59	20.0	6.29	6.29
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AHRENS BRANGUS, CONWAY, AR 72032--BRANGUS

46	NOT AVAILABLE ³	457Z	2/14	257	695	1004	50.7	1015	2.86	2.75	25.7	8.99	8.38
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¹ The October, November and December birthdates are 1989; all others are 1990.

² The 365-day weight = 365 (final test wt/age in days). Height at hips is standardized to 365 days using the formula: height at hips (365-day) = measured height at 84 days on test - 0.0273 (actual age at 84 days on test - 365). ADG (average daily gain), wt/day of age, avg daily feed and feed conversion were calculated at the end of the 112-day test. Adjusted feed conversion = actual feed conversion - 0.006 (initial wt on test - within-breed avg. initial wt).

³ Missing sire information not supplied by owner.