

SA Stud Book Annual Logix Beef Report



Ankole Borguni Chianina Charbray

Murray
Grey

Wagyu

2014



Introduction

Information has been obtained from Logix as on 31/12/2014.

Birth Weight, Pre-wean Weight, Weaning Weight, 12 Month Weight, 18 Month Weight, Cow Weight at Calving, Cow Weight at Weaning of Calf, Age at First Calving (AFC) and Inter-calving Period (ICP) are measured on the farm by the farmer himself. The environment in which these traits are measured therefore varies between herds. Environmental factors include veld type, climate, management practices, terrain and available feed. Traits such as Height, Length, Skin Thickness, Scrotal Circumference, Final Weight and Real-Time Ultrasound (RTU) measurements are taken by the technical advisor allocated to a particular area at the end of the on-farm testing. In 2014, 19 breeds took part in on-farm testing.

Centralised testing takes place at various centralised testing centres located through-out the country. The animals are individually fed a standardised ration and are compared within the same environment. There is an adaptation period of 28 days, followed by a test length of 84 days. Body weights and feed intake are measured regularly, and Height, Length, Skin Thickness, Scrotal Circumference, Final Weight and RTU measurements are taken at the end of the test. Individual feed intake measurements allow for the calculation of feed conversion ratio (FCR), a measure of feed efficiency. In 2014, 17 breeds took part in centralised testing.

Percentages and average values may be misleading when there are few herds or animals, and is not necessarily a true representation of the breed. For example, a participation percentage of 80 on a breed with 1000 is a good representation of the breed, as this includes 800 herds, but on a breed with 5 herds it is not, as this only includes 4 herds.

Be careful when comparing the performance of breeds with each other. The values presented here are dependent on genetic merit and environmental factors, and the breeding objectives may differ between breeds.

Pie charts are presented for herds registered at SA Stud Book and herds in Logix Beef. All breeds with less than 20 herds are grouped as “other”.

Averages that appear on the bottom of the tables are corrected averages – total value of measurements divided by the total number of animals measured. In other words, it is not the total averages per breed divided by the number of breeds. This is to take into account that all breeds do not have the same number of animals and therefore cannot have equal contributions to the average. Weight averages for males and females are adjusted for age.

The gender of the animals presented in the tables is both indicated in the title and with the use of a background picture, where:



= Female



= Male

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Table 1: Number of herds participating in Logix Beef on 31/12/2014

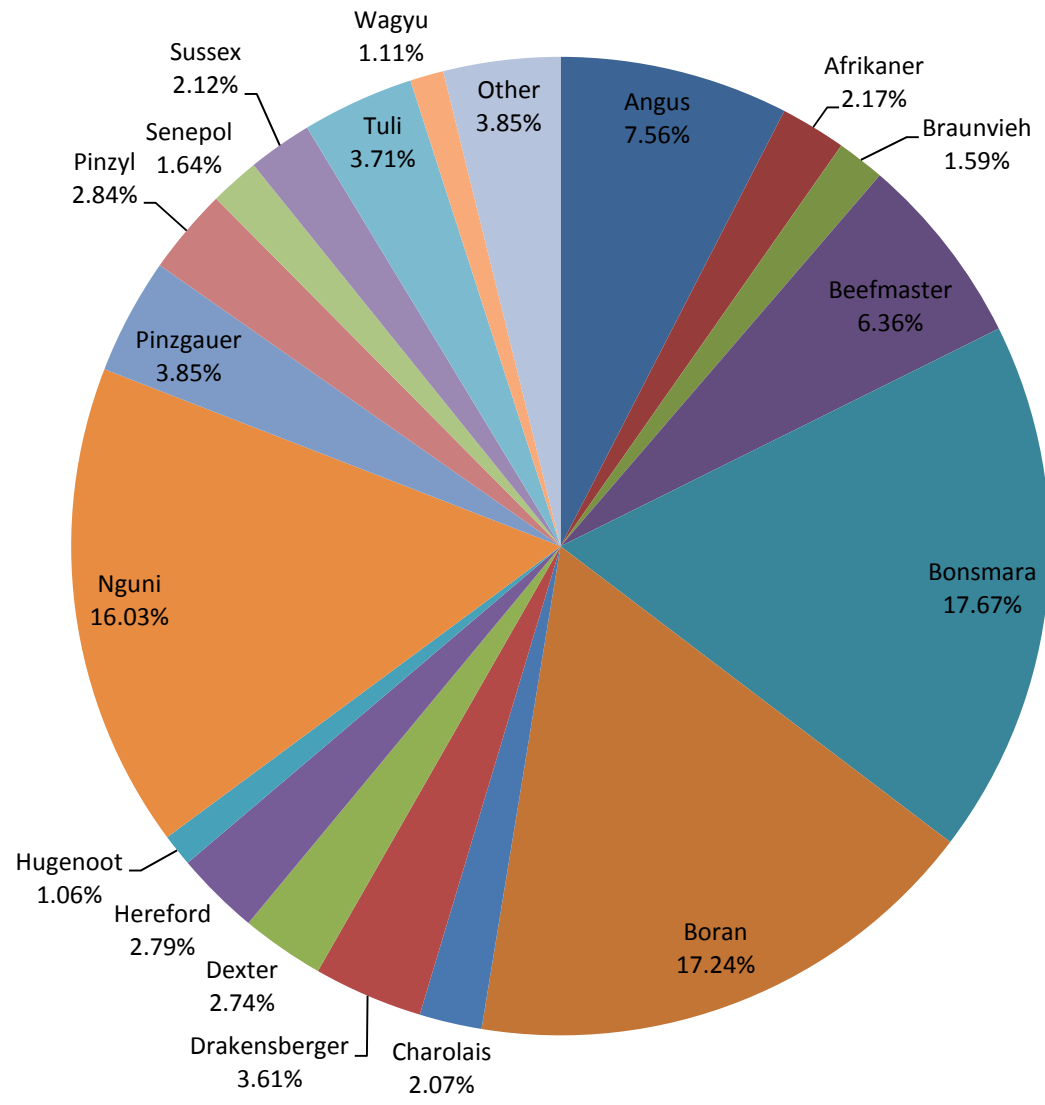
Breed -SA	Number of herds					Percentage participation		
	Reg. 2014	Reg. 2013	Reg. 2012	% of 2013	Logix Beef	2014	2013	2012
Angus	157	179	178	88	112	71	70	69
Afrigus	12	12	11	100	6	50	58	64
Afrikaner	45	54	57	83	36	80	80	74
Ankole	4	5	5	80	1	25	20	20
Afrisim	5	7	12	71	5	100	100	67
Braunvieh	33	47	47	70	17	52	43	40
Borguni	10	9	10	111	6	60	56	60
Beefmaster	132	146	142	90	129	98	83	85
Bonsmara	367	411	403	89	362	99	100	94
Boran	358	382	368	94	90	25	24	23
Beef shorthorn	7	7	8	100	3	43	43	25
Charbray	1	2	2	50	1	100	100	50
Charolais	43	54	52	80	43	100	87	83
Chianina	6	2	2	300	2	33	0	0
Drakensberger	75	81	79	93	72	96	95	91
Dexter	57	64	60	89	12	21	19	17
Galloway	1	0			0	0		
Gelbvieh	2	2	3	100	2	100	100	67
Hereford	58	63	65	92	47	81	81	78
Hugenoot	22	33	31	67	14	64	45	35
Nguni	333	407	417	82	86	26	22	20
Pinzgauer	80	109	80	73	33	41	21	25
Pinzyl	59	70	51	84	19	32	19	6
Romagnola	18	19	17	94	10	56	53	41
Red Poll	8	9	9	89	5	63	56	44
South Devon	6	7	7	86	6	100	100	100
Senepol	34	34	35	100	34	100	97	23
Sussex	44	47	60	94	39	89	89	75
Tuli	77	74	69	104	75	97	89	55
Wagyu	23	20	16	115	9	39	30	13
Total & Av.	2077	2358	2298	88	1276	61	59	48

All highlighted areas indicate an increase from year to the next. The percentage in red font is the number of herds registered at SA Stud Book in 2014 over those in 2013.

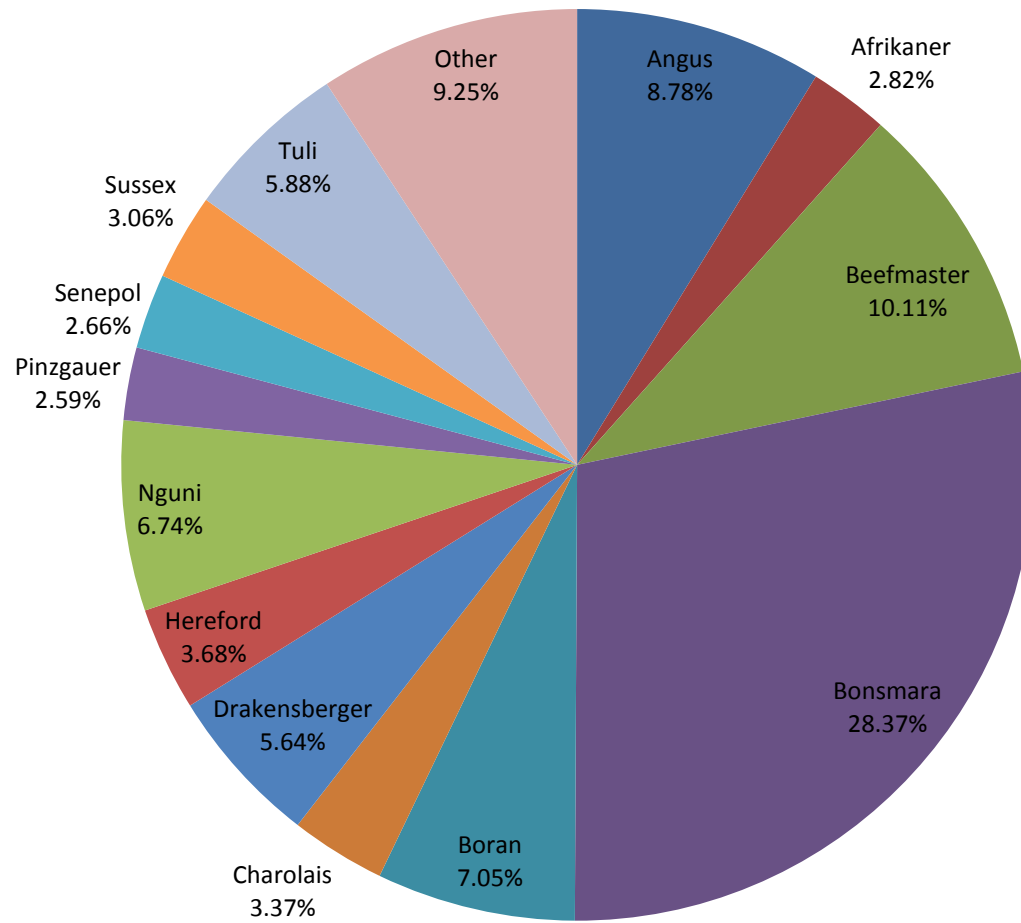
Table 2: Foreign breeds summary

Breed	Herds reg.	Animals reg.	Herds in Logix Beef	Animals in Logix Beef	% Participation (herds)
Bonsmara (Argentina)	37	3115	36	3115	97
Bonsmara (Brazil)	9	7776	9	7776	100
Bonsmara (Columbia)	2	43	2	43	100
Bonsmara (Namibia)	44	13714	44	13714	100
Total	92	24648	91	24648	99

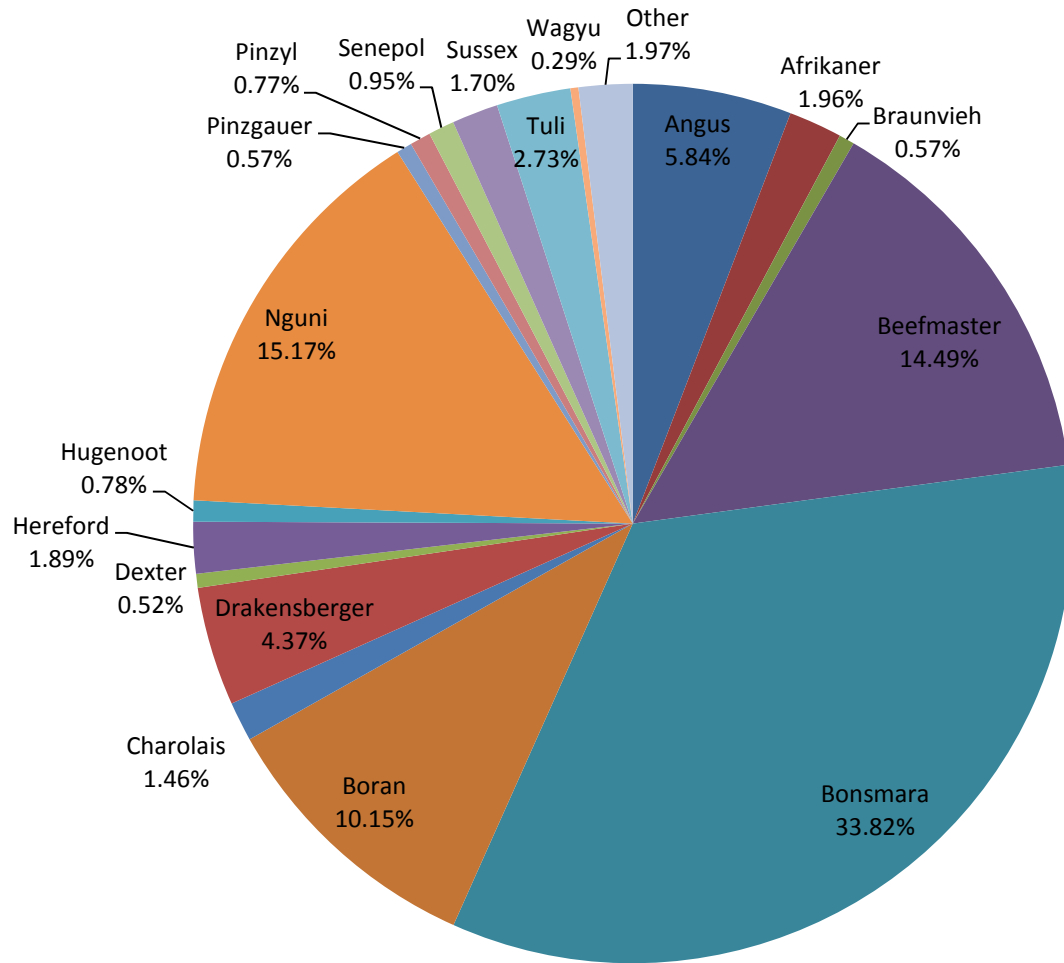
Herds registered at SA Stud Book in 2014



Herds participating in Logix Beef in 2014



Animals registered at SA Stud Book in 2014



Animals participating in Logix Beef in 2014

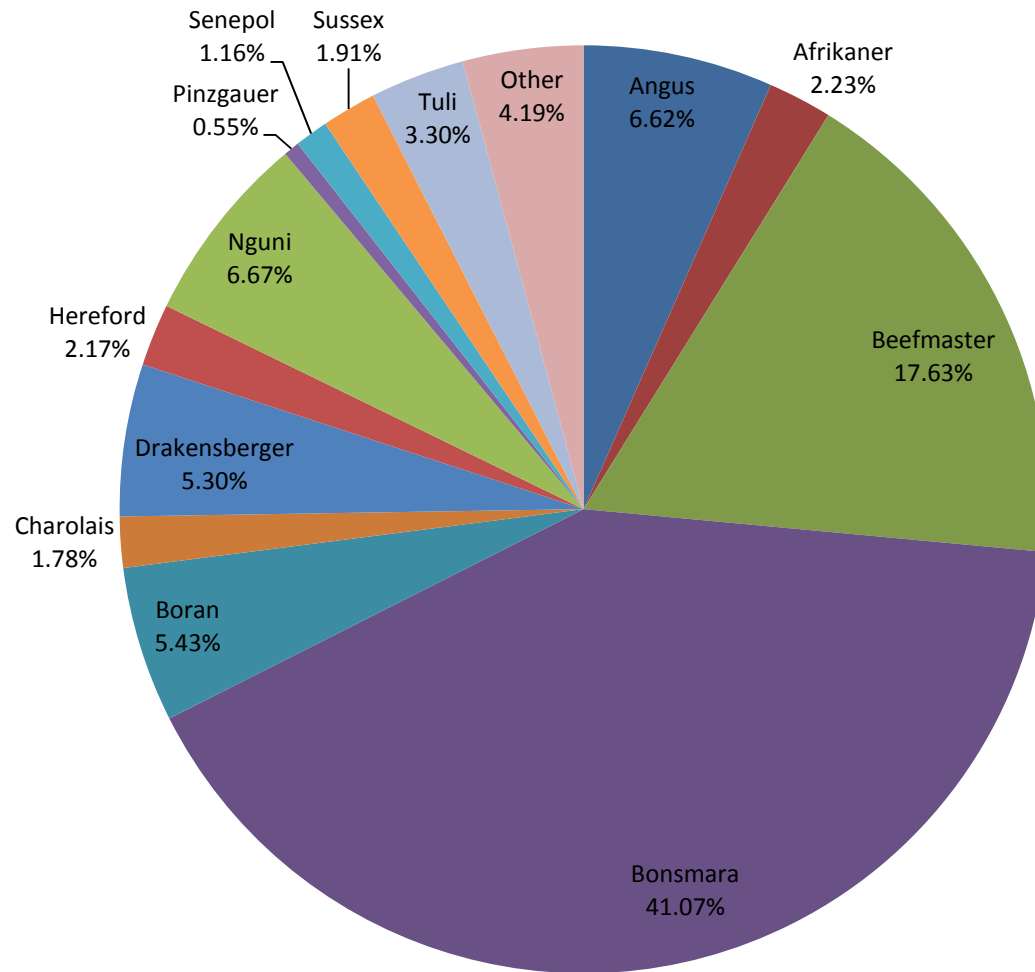


Table 3: Number of animals participating in Logix Beef on 31/12/2014

Breed	Males		% part.	Females		% part.	All animals		% part.
	Reg.	Logix		Reg.	Logix		Reg.	Logix	
Angus	6228	5899	95	16263	15013	92	22491	20912	93
Afrigus	210	154	73	579	395	68	789	549	70
Afrikaner	1999	1911	96	5553	5120	92	7552	7031	93
Ankole	143	134	94	393	367	93	536	501	93
Afrisisim	181	181	100	731	731	100	912	912	100
Braunvieh	494	374	76	1682	1156	69	2176	1530	70
Borguni	86	64	74	155	112	72	241	176	73
Beefmaster	15747	15732	99.9	40035	39943	99.8	55782	55675	99.8
Bonsmara	34163	34152	99.9	96009	95558	99.5	130172	129710	99.6
Boran	9861	4902	50	29189	12239	42	39050	17141	44
Beef shorthorn	117	100	85	438	230	53	555	330	59
Charbray	33	33	100	53	53	100	86	86	100
Charolais	1725	1725	100	3885	3885	100	5610	5610	100
Chianina	55	10	18	172	6	3	227	16	7
Drakensberger	5170	5167	99.9	11641	11561	99	16811	16728	99.5
Dexter	428	174	41	1564	498	32	1992	672	34
Galloway	0	0		0	0		0	0	
Gelbvieh	115	115	100	572	572	100	687	687	100
Hereford	1978	1878	95	5294	4972	94	7272	6850	94
Hugenoot	574	409	71	2427	1491	61	3001	1900	63
Murray Grey									
Nguni	14479	5642	39	43911	15432	35	58390	21074	36
Pinzgauer	530	431	81	1659	1307	79	2189	1738	79
Pinzyl	518	463	89	2431	1515	62	2949	1978	67
Romagnola	413	306	74	1568	1238	79	1981	1544	78
Red Poll	48	47	98	370	355	96	418	402	96
South Devon	313	313	100	843	843	100	1156	1156	100
Senepol	611	611	100	3061	3061	100	3672	3672	100
Sussex	1889	1751	93	4638	4278	92	6527	6029	92
Tuli	2977	2965	99.6	7541	7449	99	10518	10414	99
Wagyu	234	173	74	896	630	70	1130	803	71
Total and Av.	101319	85816	85	283553	230010	81	384872	315826	82

Table 4: Number of male animals with weight measurements and the average value per breed (as on 31/12/2014)

Breed	Nr of animals born	Birth		Pre-wean		Wean		12month		18 month	
		Nr of animals *	Ave. value	Nr of animals *	Ave. value	Nr of animals *	Ave. value	Nr of animals *	Ave. value	Nr of animals *	Ave. value
Angus	3230	2721	35.8	86	140.5	2105	239.1	385	353.0	396	457.1
Afrigus	71	69	34.4			44	205.8	43	262.3	15	411.3
Afrikaner	797	172	32.0			506	197.8	27	259.4	58	379.9
Ankole	68					52	191.2	12	239.5		
Afrisim	137	74	37.2			103	232.7				
Braunvieh	308	222	39.8	34	140.7	129	240.8	44	319.5	30	454.3
Borguni	20	15	30.0			20	169.8				
Beefmaster	7624	5623	35.5	50	136.6	5798	236.5	1442	313.9	2153	407.5
Bonsmara	20310	19285	36.2	1290	134.3	18108	224.7	1958	270.1	2035	375.5
Boran	4988	2498	29.9	1	137.0	650	205.0	68	262.7	74	368.9
Beef shorthorn	81	77	40.8	36	129.8	50	214.4	10	293.0	17	422.9
Charbray	10	6	32.8			1	284.0	3	325.3	1	394.0
Charolais	739	651	42.0			524	239.2	350	331.5	238	442.8
Chianina	1					5	213.4				
Drakensberger	2086	1565	34.8	62	131.7	1551	214.6	777	252.9	447	366.0
Dexter	328	196	26.4	19	105.8	69	182.8	1	244.0		
Gelbvieh	53	52	38.6	30	134.4	32	230.4	20	255.8	29	335.7
Hereford	995	858	37.2	62	130.8	520	226.6	81	340.7	131	450.4
Hugenoot	274	208	39.3	53	125.1	128	219.6	26	277.3	21	373.3
Nguni	7095	1073	26.2	54	103.1	996	164.4	157	207.7	141	251.7
Pinzgauer	270	98	34.7			50	202.8	15	269.6		
Pinzyl	355	208	25.9			155	207.4	2	286.0		
Romagnola	237	38	40.5			82	278.8	27	362.1	2	508.5
Red Poll	19	14	37.1			9	190.4	1	265.0	4	372.8
South Devon	209	204	36.6			168	215.6	10	271.0	15	394.2
Senepol	501	403	35.8			164	211.7	47	287.0	11	382.4
Sussex	1009	907	37.8	40	120.8	703	239.8	286	360.5	384	500.2
Tuli	1430	928	32.3	37	130.8	865	198.7	301	248.7	290	345.9
Wagyu	157	93	31.7								
Total & Av.	53402	38258	35.3	1854	132.6	33587	224.3	6093	290.2	6492	398.2

* Averages based on few measurements are not meaningful representations of the breed and should be interpreted with caution.

Weights are adjusted for age.

Table 5: Number of female animals with weight measurements, and the average value per breed (as on 31/12/2014)

Breed	Nr of animals born	Birth		Pre-wean		Wean		12 month		18 month		AFC		ICP		Cow weights #			
		Nr of animals *	Ave. value (kg)	Nr of animals	Ave. value (kg)	Nr of animals	Ave. value (kg)	Nr of animals	Ave. value (kg)	Nr of animals	Ave. value (kg)	Nr of animals	Ave. value (days)	Nr of animals	Ave. value (days)	At calving		At wean	
																Nr of animals	Ave. value	Nr of animals	Ave. value
Angus	3162	2676	34.1	99	132.6	2059	224.5	850	308.5	580	394.4	1390	935	4634	413	970	571	1538	546
Afrigus	67	65	32.4			47	196.9	51	231.7	39	265.6	26	1084	110	405	2	501	44	506
Afrikaner	731	162	30.8			538	184.9	204	224.3	306	289.0	303	1047	1218	459	156	441	670	467
Afrisim	149	78	34.2			114	214.8	15	278.5	21	309.4	39	915	196	409			127	514
Ankole	67					69	176.9					28	1040	107	399				
Braunvieh	324	244	37.3	35	126.6	128	222.0	106	255.5	68	353.4	141	984	478	441	345	502	172	493
Borguni	15	10	27.5			16	156.7					7	886	26	461	9	344	12	375
Beefmaster	7254	5385	33.6	63	130.2	5802	220.7	2518	269.2	3554	343.2	2742	938	10486	406	1584	494	5659	512
Bonsmara	19194	18470	34.1	1262	124.2	17999	209.8	12392	249.9	10412	324.0	7971	942	30252	414	20450	497	30975	503
Boran	5212	2726	28.6			778	190.5	260	210.1	248	296.1	2132	996	5505	426	1350	410	1059	429
Beef shorthorn	56	54	38.6	18	122.5	50	200.7	30	238.0	18	334.7	32	1074	105	444			76	529
Charbray	12	6	32.0					6	348.7				3	962	16	410		1	545
Charolais	663	587	39.6			531	229.7	392	289.1	273	369.9	312	1021	1012	427	456	604	683	617
Chianina	1					4	204.3												
Drakensberger	2011	1583	32.8	53	124.5	1572	197.5	1099	237.7	831	317.7	881	1012	2979	424	1347	471	1501	494
Dexter	367	193	25.2	13	108.0	46	170.3	4	192.0	13	254.1	174	830	490	428	172	315	80	337
Gelbvieh	70	70	37.7	38	125.9	41	210.0	28	235.7	35	314.4	30	1093	93	485	121	529	67	559
Hereford	993	869	35.5	55	127.9	561	221.0	190	299.7	194	342.1	466	917	1516	391	1024	545	733	314
Hugenoot	261	191	37.3	56	121.6	141	210.2	91	276.4	68	346.8	97	1093	426	457	357	539	247	543
Murray Grey	2											2	931	1	616				
Nguni	7019	1094	25.0	37	99.2	1144	151.1	498	174.0	430	226.7	2744	961	11062	408	1178	358	1913	371
Pinzgauer	259	93	34.7			51	180.5	20	259.3			108	1069	351	446	50	442	40	474
Pinzyl	385	235	25.5			164	195.0	2	201.0			119	1044	480	440			26	427
Romagnola	228	39	36.8			115	261.3	1	345.0			93	1106	323	420	32	629	1	639
Red Poll	21	15	34.3			5	191.8	4	258.3	8	283.0	21	1093	19	600	8	372	12	440
South Devon	200	193	34.6			181	201.5	47	225.8	58	316.4	116	1071	282	417	27	413	288	505
Senepol	703	603	34.7			238	203.4	163	263.8	58	311.7	259	1053	663	456	297	465	238	450
Sussex	1022	930	36.3	44	110.7	682	224.2	316	306.0	549	391.0	503	967	1484	418	691	566	708	595
Tuli	1391	941	31.1	32	114.0	926	182.1	492	208.3	541	288.1	645	1044	2009	415	708	441	1330	453
Wagyu	163	92	30.0									57	903	161	397				
Total & Av.	47487	37604	33.34	1805	123.8	34002	209.1	19779	252.8	18304	328.2	21441	962	76484	415	31334	492	48200	496

* Averages based on few measurements are not meaningful representations of the breed and should be interpreted with caution.

Cow weights are the weights of the cow at calving and weaning of her calf respectively.

Weights are adjusted for age.

Table 6: Central testing results (only male animals)

Breed	Nr of Animals *	Final weight (kg)	ADG (g)	FCR (kg/kg)	Height (mm)	Length (mm)	Skin thickness (mm)	Scrotal circum. (mm)	Nr of animals RTU	Rib fat thickness (mm)	Rump fat thickness (mm)	Eye muscle area (cm ²)	Marbling (%)
Angus	81	468.8	1969	6.15	1230	1411	13.20	355.0	60	2.17	3.31	73.97	2.35
Afrikaner	3	331.7	1374	6.97	1173	1270	19.33	306.7	3	2.03	3.37	61.00	1.60
Afrisim	15	425.7	1554	6.32	1201	1393	15.00	351.0	15	3.01	5.27	68.00	1.65
Braunvieh	33	439.9	1949	5.46	1189	1396	13.58	338.0	33	2.49	4.03	70.48	2.76
Beefmaster	25	466.0	1838	5.61	1201	1443	17.72	356.8	25	3.64	5.94	73.76	2.56
Bonsmara	444	421.6	1731	5.90	1171	1384	15.09	339.8	416	2.87	4.79	68.38	2.41
Beef shorthorn	7	434.7	1864	6.39	1194	1367	13.71	338.6	7	2.81	4.17	76.71	3.01
Charolais	9	470.1	1830	6.27	1263	1366	14.33	316.1	8	3.61	5.74	80.88	3.09
Drakensberger	89	392.2	1503	6.30	1145	1344	14.89	334.3	89	2.04	3.05	60.92	3.00
Dexter	12	315.3	1163	6.58	1073	1252	13.42	306.3	12	1.31	2.22	55.08	3.39
Hereford	24	457.4	1827	6.17	1247	1404	14.88	341.7	20	1.69	2.76	71.55	2.18
Gelbvieh	4	443.0	1780	5.62	1193	1413	11.25	340.0	4	2.55	4.83	64.50	2.03
Pinzgauer	15	431.1	1867	5.79	1182	1382	17.07	346.7	15	2.73	4.31	65.87	1.86
Pinzyl	19	351.7	1422	7.07	1155	1314	16.16	314.5	19	1.98	3.46	64.58	1.92
Romagnola	3	425.0	1834	5.55	1270	1440	14.00	318.3	3	1.6	1.9	75.67	1.90
Senepol	5	416.0	1608	6.58	1186	1396	15.00	346.0	5	2.94	4.34	66.00	1.78
Sussex	15	423.4	1786	5.94	1207	1369	15.67	339.7	15	1.57	2.39	65.33	2.8
Total and av.	807	423.2	1728	6.01	1179	1380	14.91	339.6	753	2.61	4.26	67.99	2.48

* Averages based on few measurements are not meaningful representations of the breed and should be interpreted with caution.

Table 7: On-farm testing results (only males)

Breed	Nr of Animals *	Final weight (kg)	ADG (g)	Height (mm)	Length (mm)	Skin thickness (mm)	Scrotal circum. (mm)	Nr of animals RTU	Rib fat thickness (mm)	Rump fat thickness (mm)	Eye muscle area (cm ²)	Marbling (%)
Angus	540	447.8	1370	1251	1434	12.69	356.5	283	2.85	4.24	69.26	2.91
Afrikaner	113	335.4	829	1194	1320	15.23	323.0	31	1.92	2.46	53.10	1.85
Afrisim	36	422.7	1608	1171	1380	16.83	333.2					
Beefmaster	839	399.9	1028	1177	1387	13.70	332.7	44	1.42	1.80	46.98	1.90
Bonsmara	7690	411.4	1358	1176	1401	15.31	339.8	1073	3.09	4.97	68.08	2.11
Boran	153	335.3	765	1144	1282	14.05	316.6	66	1.92	2.61	54.02	1.86
Borguni	9	297.1	986	1142	1277	13.00	315.6					
Charolais	36	441.9	1498	1249	1428	11.50	325.6					
Drakensberger	245	400.7	1094	1182	1394	14.38	336.4	46	3.14	5.33	65.17	2.15
Dexter	23	281.3	930	1031	1213	10.96	295.5	23	2.20	2.69	44.09	2.02
Hereford	155	424.7	1328	1236	1401	14.14	339.7	57	2.94	4.17	52.60	1.36
Hugenoot	73	425.9	1488	1199	1416	16.14	335.7					
Nguni	87	279.5	706	1102	1226	11.44	300.3					
Pinzgauer	19	411.6	1965	1172	1401	16.00	345.0					
Pinzyl	29	385.2	1566	1184	1379	18.21	333.3					
Senepol	35	367.7	1125	1132	1369	13.43	315.3					
South Devon	16	414.1	1426	1183	1418	11.31	344.1					
Sussex	245	397.1	1097	1204	1401	15.44	329.0	63	2.56	3.53	64.56	2.32
Tuli	44	344.0	1092	1188	1360	15.66	332.8	34	2.83	4.55	51.12	1.53
Total and av.	10387	408.3	1300	1180	1397	14.97	338.6	1720	2.90	4.52	65.55	2.20

* Averages based on few measurements are not meaningful representations of the breed and should be interpreted with caution.

