



**2006  
OKLAHOMA  
MEAT BUCK PERFORMANCE TEST  
FINAL REPORT  
(10<sup>th</sup> Annual)**

May 13 - August 26, 2006

Sponsored by the  
Oklahoma Meat Goat Association  
and  
Agricultural Research and Extension  
Program at  
Langston University

## Introduction

Meat goat production represents the most rapidly growing animal industry in the US today, and is becoming a mainstream livestock enterprise. To further genetic progress through the identification of superior sires in the industry, Langston University and the Oklahoma Meat Goat Association established a meat goat performance test in 1997.

## Entry

The tenth annual meat buck performance test started May 13, 2006 with 56 bucks enrolled from 16 different breeders. Geographical distribution is given in the table below.

<b>State</b>	<b>Bucks</b>
KS	5
MO	12
OK	9
TX	30
<b>Total</b>	<b>56</b>

Bucks were given a physical examination by Dr. Lionel Dawson, dewormed with Cydectin (moxidectin), deloused with Atroban De-Lice, given a preemptive injection of Nuflor for upper respiratory infections, and those bucks that needed booster or initial vaccinations for enterotoxemia and caseous lymphandinitis. Four weeks after check-in, all bucks were given a booster vaccination for enterotoxemia and caseous lymphandinitis.

Half of the bucks were randomly assigned within breeder to either Calan feeders or Feed Intake Recording Equipment (FIRE) system.

Average age in days and entry weight are detailed in the table below.

<b>Type</b>	<b>Data</b>	<b>Total</b>
Calan	Average of Entry Weight (lbs)	58.3
Fire	Average of Entry Weight (lbs)	55.8
	Total Average of Entry Weight (lbs)	57.0

## Adjustment Period

The performance-testing facility only has 53 Calan feeders but 56 bucks enrolled. To accommodate all animals, the new Feed Intake Recording Equipment (FIRE) system was used. The FIRE system is a completely automated electronic feeding system, which was developed for swine but we have adapted it to goats. Animals wear an electronic eartag, which is read by an antenna in the feeder. The FIRE system automatically records body weight and feed intake. This year, half of the bucks are in the FIRE system and half are in the Calan feeders. For producers, who enrolled more than one buck in the Buck Performance Test, the test supervisor randomly assigned half of their bucks to the FIRE system and half to the Calan feeders. The training period was much shorter for the FIRE system than for the Calan feeders. However, the bucks on the Calan feeders mastered the Calan feeders and are doing quite well. With the combined FIRE system and Calan feeders, the Oklahoma Buck Performance Test Buck now has a capacity of 100 bucks.

Because the FIRE system has not previously been used with goats, Langston University determined the appropriate stocking density per FIRE feeder. As many as 10 young goats can share a FIRE feeder and have similar performance to goats in the Calan system. Langston University also compared the FIRE system with the Calan feeders. We found no differences in average daily gain or feed intake of growing goats on the FIRE system and the well-established Calan feeders.

All bucks underwent an adjustment period of two weeks immediately after check-in. During the adjustment period, bucks were acclimated to the test ration and to the Calan feeders or to the FIRE system. For the Calan feeders, each buck wears a collar with an electronic “key” encased in hard plastic. The key unlocks the door to only one Calan feeder, thus enabling the buck to eat out of his individual feeder. Each morning, yesterday’s feed that remains in the Calan feeder is weighed and removed from the Calan feeder. Fresh feed is weighed and placed into the Calan feeder. The difference in weights between the fresh feed placed in the Calan feeder one morning and the remaining feed the next morning is the amount consumed. Because only one goat is capable of opening the Calan door and eating, it is possible to calculate the feed intake of the individual bucks. For the FIRE system, feed intake is automatically recorded every time a buck enters into the FIRE system to eat.

The area immediately around the Calan and FIRE feeders and waterers is concrete,

however, the large majority of the inside pen is earth and is covered by pine shavings. Pine shavings were periodically added as needed to maintain fresh bedding. Bucks had free access to water provided by float-valve raised waterers. Whenever the weather was permitting, the bucks had access to the outside pens as well as the inside pens.

There were three bucks that did not finish the test. One buck weighed only 22 lbs at entry, refused to eat despite veterinary interventions and died within several days. We had two goats from the same farm that had similar problem, septic arthritis of bacterial origin. The organism was *Staphylococcus auricularis*. It was resistant to most common antibiotics, but sensitive to a few specialized antibiotics. The veterinarians theorized that the organism probably gained entry through the navel at birth and resided in the joint until the joint was damaged by another buck beating on them and the organism grew and destroyed the joint. We had one hernia which was repaired and one abscess problem.

This year we were fortunate to hire a second year veterinary student from Oklahoma State University, Ms. Rebecca Whittington. Rebecca has done a wonderful job with the bucks.

## Ration

Nutritionists at Langston University formulated the following ration. In 1999, the amount of salt and ammonium chloride was doubled due to problems with urinary calculi the previous year. Except for the increase in salt and ammonium chloride, the ration was unchanged from that which was used in the first two meat buck performance tests. The ration was fed free-choice during the adjustment period and during the 12-week test.

<b>Ingredient</b>	<b>Percentage (as fed)</b>
Cottonseed hulls	29.07%
Alfalfa meal	19.98%
Cottonseed meal	15.99%
Ground corn	15.99%
Wheat midds	9.99%
Pellet Partner (binder)	5.00%
Ammonium chloride	1.00%
Yeast	1.00%
Calcium Carbonate	0.95%
Salt	0.50%
Trace mineral salt	0.50%
Vitamin A	0.02%
Rumensin	0.01%
<b>TOTAL</b>	<b>100.00%</b>

The crude protein content of the ration is 16% with 2.5% fat, 20.4% fiber and 60.6% TDN. Calcium phosphorus and sodium levels are .74%, .37% and 1.07%, respectively. Zinc concentration is 33.04 ppm, copper is 17.15 ppm and selenium is .21 ppm. In 2003, competitive bids were sought for the buck-test feed and Bluebonnet Feeds of Ardmore, OK was awarded the contract to supply feed for the buck performance test for 2003, 2004, 2005, and 2006.

## ABGA Approved Performance Test

In early 2000, the Oklahoma performance test was designated by the American Boer Goat Association Board of Directors as an ABGA Approved Performance Test. Qualified fullblood or purebred Boer bucks will be eligible to earn points towards entry into the "Ennobled Herd Book". Candidate bucks must pass a pre-performance

test inspection conducted by one (1) or more ABGA approved breeders. Ten (10) points will be awarded a Boer buck who shows an average daily weight gain (ADG) in the top five percent (5%) of the animals on test. Five (5) points will be awarded a Boer buck who shows an average daily weight gain (ADG) in the next fifteen percent (15%) of the animals on test. All bucks must gain at least three-tenths (.3) pounds per day to be awarded any points.

## **International Boer Goat Association, Inc. Sanctioned Test**

In 2003, the Oklahoma buck performance test was sanctioned by the International Boer Goat Association, Inc.

The Oklahoma performance test continues to grow and to serve the meat goat industry.

### **Gain**

The official performance test started on May 31 after the adjustment period was finished. Weights at the beginning of the test averaged 67 lbs with a range of 39 to 112 lbs. Weights at mid-point averaged 94 lbs with a range of 70 to 139 lbs. Weights at the end of the test averaged 122 lbs with a range of 94 to 162 lbs. **Weight gain for the test averaged 55 lbs with a range of 33 to 76 lbs.**

The type of feeder (Calan or FIRE) had no significant effect upon gain. Figure 1 shows the weekly body weight gains for both feeder types over the course of the performance test.

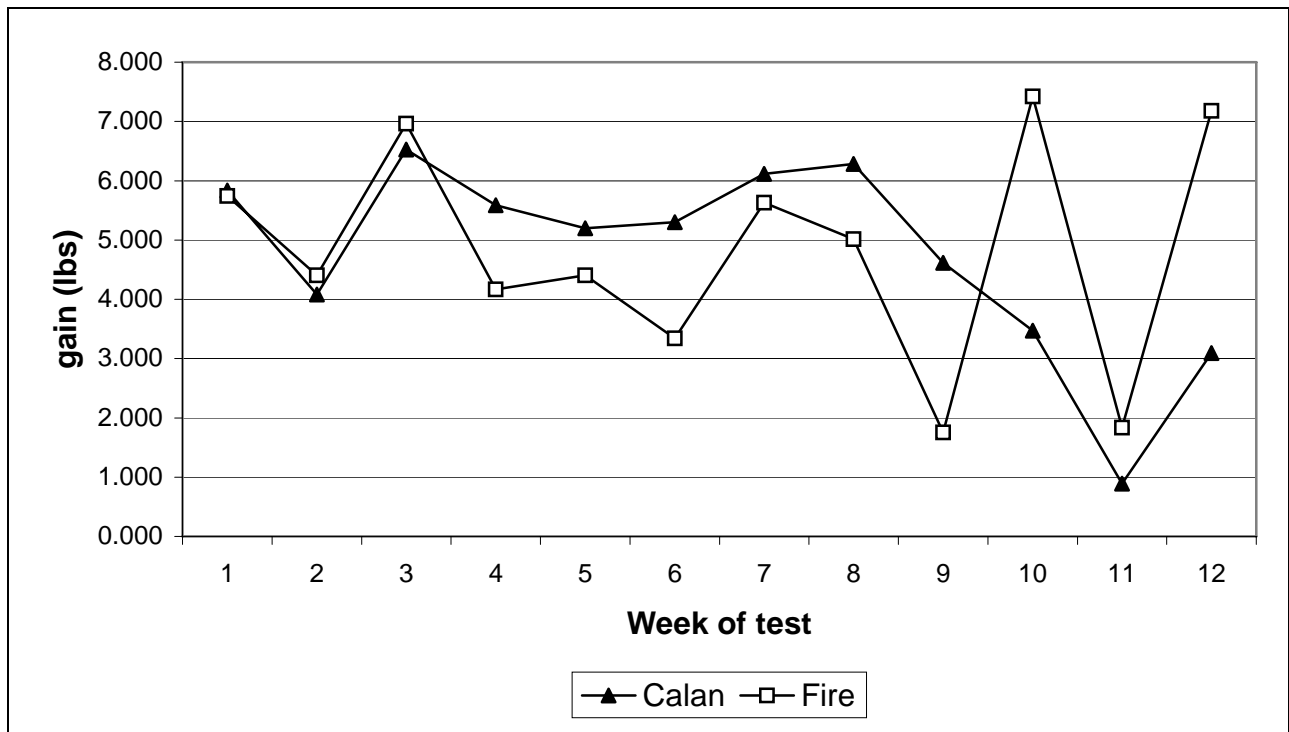


Figure 1. Calan vs. FIRE - weekly body weight gains

## Average Daily Gain (ADG)

For the test, the bucks gained on averaged 0.65 lbs/day with a range of 0.39 lbs/day to 0.90 lbs/day.

## Feed Efficiency (Feed Conversion Ratio)

For the test, the bucks consumed an average of 358 lbs of feed with a range of 250 to 537 lbs.

The type of feeder (Calan or FIRE) had no significant effect upon intake. Bucks on the Calan system averaged 352 lbs intake and bucks on the FIRE system averaged 363 lbs, which is a difference of 11 lbs. over the 12-week period. Figure 2 shows the average daily intake for both feeder types over the course of the performance test.

For the test, the bucks averaged a feed efficiency of 6.66 (feed efficiency is defined as the number of lbs. of feed needed for one lbs. of gain), with a range of 4.84 to 11.11.

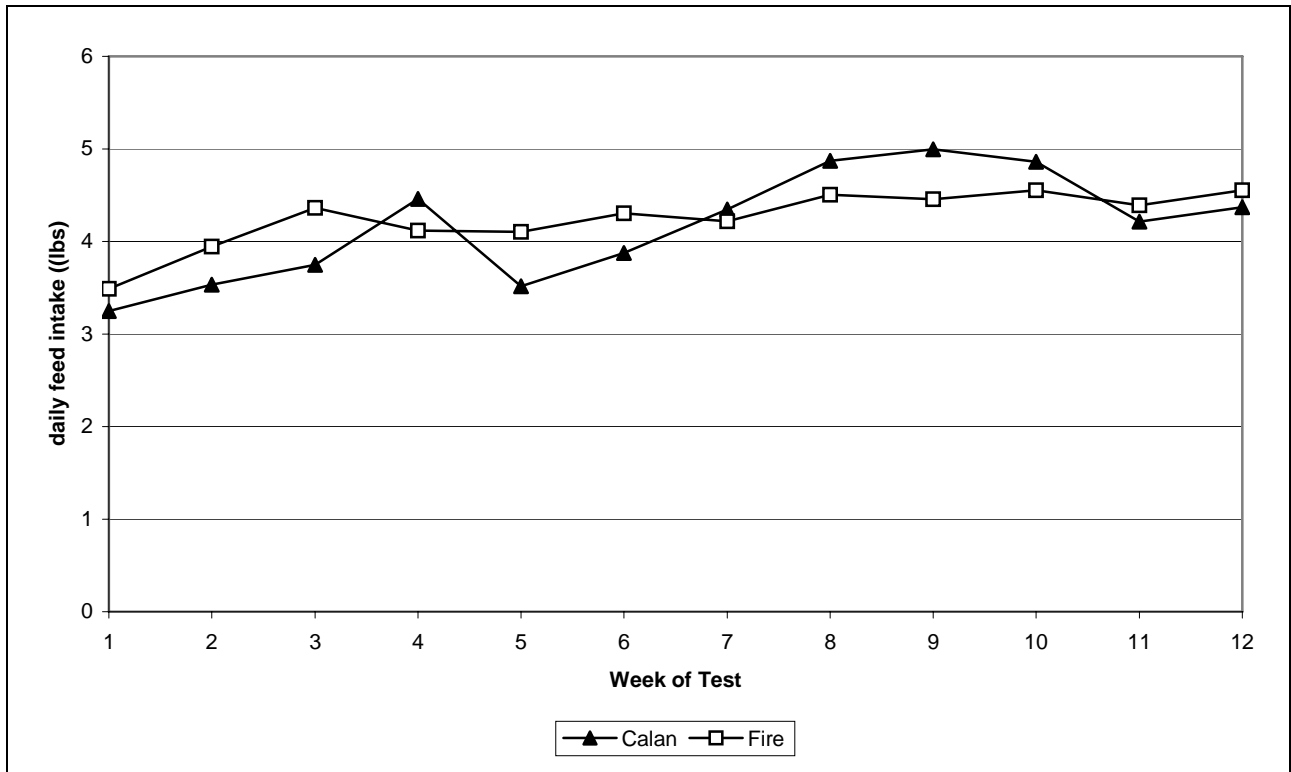


Figure 2. Calan vs. FIRE - daily feed intake

## Muscling

The average loin eye area as determined by ultrasonography was 1.82 square inches with a range of 1.38 to 2.78 square inches and the average left rear leg circumference was 16.4 inches with a range of 15.0 to 18.5 inches.

## Index

For 2006, the index was calculated using the following parameters:

30% on efficiency (units of feed per units of gain)

30% on average daily gain

20% on area of longissimus muscle (loin) at the first lumbar site as measured by real time ultrasound adjusted by the goat's metabolic body weight:

$$\frac{\text{area of longissimus muscle (loin)}}{BW^{0.75}}$$

20% circumference around the widest part of the hind left leg as measured with a tailor's tape adjusted by the goat's metabolic body weight:

$$\frac{\text{circumference of hind left leg}}{BW^{0.75}}$$

The adjustment to metabolic body weight gives lighter weight goats a fair comparison of muscling to heavier goats.

The deviation from the average of the parameters measured from the goats in the performance test was used in the index calculation. Thus, the average index score for bucks on-test was 100%. Bucks that are above average have indices above 100% and those below average have index scores below 100%.

## **Congratulations**

The Oklahoma Meat Goat Association and the Agricultural Research and Extension Program at Langston University congratulate:

- Mr. Orlin Scrivener of Cabool, MO  
for having the Top-Indexing buck  
in the 2006 Oklahoma Meat Buck Performance Test

Also, deserving congratulations are:

- Mr. Orlin Scrivener of Cabool, MO  
for having the #1 Fastest-Gaining buck
- Mr. Orlin Scrivener of Cabool, MO  
for having the #2 (tie) Fastest-Gaining buck
- Mr. Dan Wagner of Sonora, TX  
for having the #2 (tie) Fastest-Gaining buck
- Ms. Paula Lane of Shady Point, OK  
for having the #2 (tie) Fastest-Gaining buck
- Mr. Dan Wagner of Sonora, TX  
for having the #5 Fastest-Gaining buck
- Mr. Martin Peters of Barksdale, TX  
for having the Most-Feed-Efficient buck
- Mr. Marvin Shurley of Sonora, TX  
for having the Most-Heavily-Muscled buck

## **Acknowledgments**

The Buck Test supervisor wishes to acknowledge Dr. Lionel Dawson of Oklahoma State University for his contributions as the admitting and on-call veterinarian, Ms. Rebecca Whittington for their management and oversight of the day-to-day activities, Mr. Jerry Hayes and Mr. Erick Loetz of Langston University for aid and supervision, Mr. Les Hutchens and his associates at Reproductive Enterprises, Inc. for conducting the ultrasound measurements for the loin eye area and the breeding soundness exams, and Bluebonnet Feeds of Ardmore, OK for custom mixing the feed.

2006 Buck Performance Test supervised by Dr. Steve Hart  
Report prepared by Dr. Terry A. Gipson  
Goat Extension Specialists  
Langston University

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Table 1. Bucks sorted by Index score.

Owner	ID	Owner ID	Breed	Birth date	Weights (lbs)			Gain (lbs)	ADG (lb/d)	Intake (lb)	FE <sup>*</sup>	LEA (in <sup>2</sup> )	RLC (in)	Index
					Entry	Start	End							
Orlin Scrivener	28	Wht ear	Boer	02/06/06	56.2	52.9	123.3	70.5	0.84	352.8	5.00	1.76	16.0	101.04
Dan Wagner	59	605	Boer	01/15/06	46.3	49.6	118.9	69.4	0.83	362.9	5.23	1.70	16.0	100.97
Orlin Scrivener	29	106	Boer	01/26/06	45.2	48.5	124.4	76.0	0.90	418.5	5.51	1.52	15.5	100.96
Dan Wagner	66	697	Boer	01/15/06	45.2	52.9	123.3	70.5	0.84	355.4	5.04	1.58	16.0	100.95
Henry Johnston	75	4	Boer	01/29/06	47.4	63.9	132.2	68.3	0.81	400.9	5.87	2.11	17.0	100.82
Marvin Shurley	49	174	Boer	01/23/06	44.1	52.9	118.9	66.1	0.79	351.1	5.31	1.70	16.0	100.80
Matthew Victor	35	44	Boer	02/10/06	35.2	38.5	100.2	61.7	0.73	306.5	4.97	1.49	15.5	100.80
Orlin Scrivener	31	133	Boer	01/31/06	57.3	50.7	113.4	62.8	0.75	315.0	5.02	1.58	16.0	100.75
Marvin Shurley	50	191	Boer	02/07/06	33.0	46.3	101.3	55.1	0.66	289.5	5.26	1.86	16.5	100.73
Martin Peters	60	218	Boer	12/30/05	45.2	55.1	112.3	57.3	0.68	277.0	4.84	1.84	16.5	100.73
B. J. Youngblood	70	32	Boer	02/02/06	50.7	52.9	115.6	62.8	0.75	333.4	5.31	1.76	16.0	100.73
Matthew Victor	33	24	Boer	01/20/06	46.3	58.4	118.9	60.6	0.72	310.1	5.12	1.84	16.5	100.71
Marvin Shurley	55	201	Boer	02/11/06	41.9	49.6	107.9	58.4	0.69	325.1	5.57	1.81	16.5	100.62
Kenneth Johnson	22		Boer	01/20/06	55.1	66.1	128.9	62.8	0.75	370.2	5.90	2.01	17.0	100.59
Paula Lane	37	47	Boer	01/17/06	60.6	74.9	145.4	70.5	0.84	446.4	6.33	1.99	16.5	100.57
Marvin Shurley	58	200	Boer	02/11/06	37.4	45.2	98.0	52.9	0.63	311.2	5.89	1.92	16.5	100.54
Marvin Shurley	44	168	Boer	01/23/06	40.7	49.6	106.8	57.3	0.68	326.4	5.70	1.76	16.0	100.50
Marvin Shurley	68	189	Boer	02/07/06	40.7	44.1	99.1	55.1	0.66	291.8	5.30	1.52	15.5	100.49
Marvin Shurley	69	110	Boer	01/18/06	41.9	48.5	109.0	60.6	0.72	359.1	5.93	1.58	16.0	100.45
Marvin Shurley	51	177	Boer	01/22/06	49.6	56.2	111.2	55.1	0.66	295.1	5.36	1.72	16.0	100.43
Matthew Victor	34	43	Boer	02/10/06	38.5	45.2	101.3	56.2	0.67	350.8	6.25	1.78	16.0	100.41
Matthew Victor	32	35	Boer	02/10/06	38.5	41.9	95.8	54.0	0.64	310.7	5.76	1.51	15.5	100.34
Dan Wagner	43	603	Boer	02/10/06	38.5	46.3	102.4	56.2	0.67	345.0	6.14	1.59	16.0	100.32
Paula Lane	38	126	Boer	01/03/06	54.0	52.9	102.4	49.6	0.59	281.5	5.68	1.66	16.0	100.19
Marvin Shurley	54	126	Boer	01/20/06	76.0	78.2	136.6	58.4	0.69	345.2	5.91	1.79	16.5	100.15
Al Paul	65	28	Boer	01/15/06	61.7	72.7	131.1	58.4	0.69	375.9	6.44	1.81	16.5	100.07
Darwin McLeod	23	V20	Boer	02/26/06	58.4	76.0	132.2	56.2	0.67	375.4	6.68	2.01	17.0	100.04
Paula Lane	36	39	Boer	01/04/06	51.8	62.8	114.5	51.8	0.62	300.7	5.81	1.53	16.0	100.02
Marvin Shurley	52	4	Boer	01/25/06	50.7	63.9	117.8	54.0	0.64	360.5	6.68	1.84	16.5	100.00
Marvin Shurley	46	166	Boer	01/22/06	68.3	87.0	146.5	59.5	0.71	412.5	6.94	2.04	17.0	99.98
Darwin McLeod	24	V21	Boer	03/06/06	52.9	62.8	111.2	48.5	0.58	294.1	6.07	1.60	16.0	99.89
Marla Julich	40	3	Boer	01/21/06	67.2	81.5	146.5	65.0	0.77	527.3	8.12	2.00	17.0	99.85
Al Paul	63	14	Boer	01/15/06	59.5	73.8	130.0	56.2	0.67	396.8	7.07	1.84	16.5	99.85
Marvin Shurley	48	180	Boer	01/25/06	52.9	63.9	113.4	49.6	0.59	338.9	6.84	1.61	16.0	99.68
Marla Julich	42	2	Boer	01/12/06	67.2	82.6	138.8	56.2	0.67	426.0	7.58	1.92	16.5	99.65
Marvin Shurley	57	172	Boer	01/23/06	55.1	65.0	111.2	46.3	0.55	329.3	7.12	1.84	16.5	99.65
Paula Lane	39	41	Boer	01/17/06	51.8	61.7	107.9	46.3	0.55	321.1	6.94	1.53	16.0	99.55
Marla Julich	41	6	Boer	01/26/06	65.0	76.0	125.6	49.6	0.59	364.8	7.36	1.83	16.5	99.53
Orlin Scrivener	27	120	Boer	02/04/06	63.9	73.8	137.7	63.9	0.76	536.9	8.41	1.51	15.5	99.51
Marvin Brooks	26	514	Boer	01/10/06	74.9	88.1	138.8	50.7	0.60	317.1	6.26	1.49	15.5	99.51
Orlin Scrivener	30	115	Boer	01/31/06	61.7	73.8	123.3	49.6	0.59	379.0	7.65	1.87	16.5	99.49
Henry Johnston	74	3	Boer	01/12/06	49.6	54.0	93.6	39.6	0.47	249.7	6.30	1.38	15.0	99.49
Marvin Shurley	45	118	Boer	01/19/06	68.3	84.8	137.7	52.9	0.63	412.7	7.81	1.94	16.5	99.46
Marvin Shurley	53	130	Boer	01/20/06	56.2	66.1	114.5	48.5	0.58	365.7	7.55	1.61	16.0	99.44
Marvin Shurley	56	5	Boer	01/19/06	62.8	66.1	104.6	38.5	0.46	272.7	7.08	1.76	16.0	99.35
Marvin Shurley	47	156	Boer	01/21/06	58.4	70.5	112.3	41.9	0.50	346.4	8.28	2.20	17.0	99.35
Freman Elam	71	136	Boer	01/01/06	90.3	92.5	138.8	46.3	0.55	370.9	8.02	2.30	17.5	99.32
Jerry Hicks	20	Wh 14	Boer	12/24/05	99.1	112.3	161.9	49.6	0.59	417.5	8.42	2.48	18.0	99.22
Freman Elam	72	138	Boer	01/01/06	90.3	105.7	153.1	47.4	0.56	438.9	9.27	2.34	17.5	98.88
Marvin Brooks	25	511	Boer	01/10/06	77.1	100.2	145.4	45.2	0.54	416.9	9.23	2.02	17.0	98.73
Freman Elam	73	134	Boer	01/01/06	89.2	103.5	136.6	33.0	0.39	334.8	10.13	2.78	18.5	98.46
Marvin Shurley	67	183	Boer	01/24/06	72.7	90.3	128.9	38.5	0.46	367.2	9.53	1.70	16.0	98.32
Terry Taylor	21	V0006	Boer	01/16/06	79.3	103.5	145.4	41.9	0.50	464.9	11.11	2.08	17.0	98.09

\* lbs of feed for one lb. of gain.

Table 2. Bucks sorted by Gain (ADG).

Owner	ID	Owner ID	Breed	Birth date	Weights (lbs)			Gain (lbs)	ADG (lb/d)	Intake (lb)	FE <sup>1</sup>	LEA (in <sup>2</sup> )	RLC (in)	Index
					Entry	Start	End							
Orlin Scrivener	29	106	Boer	01/26/06	45.2	48.5	124.4	76.0	0.90	418.5	5.51	1.52	15.5	100.96
Orlin Scrivener	28	Wht ear	Boer	02/06/06	56.2	52.9	123.3	70.5	0.84	352.8	5.00	1.76	16.0	101.04
Dan Wagner	66	697	Boer	01/15/06	45.2	52.9	123.3	70.5	0.84	355.4	5.04	1.58	16.0	100.95
Paula Lane	37	47	Boer	01/17/06	60.6	74.9	145.4	70.5	0.84	446.4	6.33	1.99	16.5	100.57
Dan Wagner	59	605	Boer	01/15/06	46.3	49.6	118.9	69.4	0.83	362.9	5.23	1.70	16.0	100.97
Henry Johnston	75	4	Boer	01/29/06	47.4	63.9	132.2	68.3	0.81	400.9	5.87	2.11	17.0	100.82
Marvin Shurley	49	174	Boer	01/23/06	44.1	52.9	118.9	66.1	0.79	351.1	5.31	1.70	16.0	100.80
Marla Julich	40	3	Boer	01/21/06	67.2	81.5	146.5	65.0	0.77	527.3	8.12	2.00	17.0	99.85
Orlin Scrivener	27	120	Boer	02/04/06	63.9	73.8	137.7	63.9	0.76	536.9	8.41	1.51	15.5	99.51
B. J. Youngblood	70	32	Boer	02/02/06	50.7	52.9	115.6	62.8	0.75	333.4	5.31	1.76	16.0	100.73
Orlin Scrivener	31	133	Boer	01/31/06	57.3	50.7	113.4	62.8	0.75	315.0	5.02	1.58	16.0	100.75
Kenneth Johnson	22		Boer	01/20/06	55.1	66.1	128.9	62.8	0.75	370.2	5.90	2.01	17.0	100.59
Matthew Victor	35	44	Boer	02/10/06	35.2	38.5	100.2	61.7	0.73	306.5	4.97	1.49	15.5	100.80
Matthew Victor	33	24	Boer	01/20/06	46.3	58.4	118.9	60.6	0.72	310.1	5.12	1.84	16.5	100.71
Marvin Shurley	69	110	Boer	01/18/06	41.9	48.5	109.0	60.6	0.72	359.1	5.93	1.58	16.0	100.45
Marvin Shurley	46	166	Boer	01/22/06	68.3	87.0	146.5	59.5	0.71	412.5	6.94	2.04	17.0	99.98
Marvin Shurley	54	126	Boer	01/20/06	76.0	78.2	136.6	58.4	0.69	345.2	5.91	1.79	16.5	100.15
Marvin Shurley	55	201	Boer	02/11/06	41.9	49.6	107.9	58.4	0.69	325.1	5.57	1.81	16.5	100.62
Al Paul	65	28	Boer	01/15/06	61.7	72.7	131.1	58.4	0.69	375.9	6.44	1.81	16.5	100.07
Martin Peters	60	218	Boer	12/30/05	45.2	55.1	112.3	57.3	0.68	277.0	4.84	1.84	16.5	100.73
Marvin Shurley	44	168	Boer	01/23/06	40.7	49.6	106.8	57.3	0.68	326.4	5.70	1.76	16.0	100.50
Al Paul	63	14	Boer	01/15/06	59.5	73.8	130.0	56.2	0.67	396.8	7.07	1.84	16.5	99.85
Matthew Victor	34	43	Boer	02/10/06	38.5	45.2	101.3	56.2	0.67	350.8	6.25	1.78	16.0	100.41
Dan Wagner	43	603	Boer	02/10/06	38.5	46.3	102.4	56.2	0.67	345.0	6.14	1.59	16.0	100.32
Darwin McLeod	23	V20	Boer	02/26/06	58.4	76.0	132.2	56.2	0.67	375.4	6.68	2.01	17.0	100.04
Marla Julich	42	2	Boer	01/12/06	67.2	82.6	138.8	56.2	0.67	426.0	7.58	1.92	16.5	99.65
Marvin Shurley	50	191	Boer	02/07/06	33.0	46.3	101.3	55.1	0.66	289.5	5.26	1.86	16.5	100.73
Marvin Shurley	68	189	Boer	02/07/06	40.7	44.1	99.1	55.1	0.66	291.8	5.30	1.52	15.5	100.49
Marvin Shurley	51	177	Boer	01/22/06	49.6	56.2	111.2	55.1	0.66	295.1	5.36	1.72	16.0	100.43
Matthew Victor	32	35	Boer	02/10/06	38.5	41.9	95.8	54.0	0.64	310.7	5.76	1.51	15.5	100.34
Marvin Shurley	52	4	Boer	01/25/06	50.7	63.9	117.8	54.0	0.64	360.5	6.68	1.84	16.5	100.00
Marvin Shurley	58	200	Boer	02/11/06	37.4	45.2	98.0	52.9	0.63	311.2	5.89	1.92	16.5	100.54
Marvin Shurley	45	118	Boer	01/19/06	68.3	84.8	137.7	52.9	0.63	412.7	7.81	1.94	16.5	99.46
Paula Lane	36	39	Boer	01/04/06	51.8	62.8	114.5	51.8	0.62	300.7	5.81	1.53	16.0	100.02
Marvin Brooks	26	514	Boer	01/10/06	74.9	88.1	138.8	50.7	0.60	317.1	6.26	1.49	15.5	99.51
Orlin Scrivener	30	115	Boer	01/31/06	61.7	73.8	123.3	49.6	0.59	379.0	7.65	1.87	16.5	99.49
Jerry Hicks	20	Wh 14	Boer	12/24/05	99.1	112.3	161.9	49.6	0.59	417.5	8.42	2.48	18.0	99.22
Paula Lane	38	126	Boer	01/03/06	54.0	52.9	102.4	49.6	0.59	281.5	5.68	1.66	16.0	100.19
Marvin Shurley	48	180	Boer	01/25/06	52.9	63.9	113.4	49.6	0.59	338.9	6.84	1.61	16.0	99.68
Marla Julich	41	6	Boer	01/26/06	65.0	76.0	125.6	49.6	0.59	364.8	7.36	1.83	16.5	99.53
Darwin McLeod	24	V21	Boer	03/06/06	52.9	62.8	111.2	48.5	0.58	294.1	6.07	1.60	16.0	99.89
Marvin Shurley	53	130	Boer	01/20/06	56.2	66.1	114.5	48.5	0.58	365.7	7.55	1.61	16.0	99.44
Freman Elam	72	138	Boer	01/01/06	90.3	105.7	153.1	47.4	0.56	438.9	9.27	2.34	17.5	98.88
Paula Lane	39	41	Boer	01/17/06	51.8	61.7	107.9	46.3	0.55	321.1	6.94	1.53	16.0	99.55
Freman Elam	71	136	Boer	01/01/06	90.3	92.5	138.8	46.3	0.55	370.9	8.02	2.30	17.5	99.32
Marvin Shurley	57	172	Boer	01/23/06	55.1	65.0	111.2	46.3	0.55	329.3	7.12	1.84	16.5	99.65
Marvin Brooks	25	511	Boer	01/10/06	77.1	100.2	145.4	45.2	0.54	416.9	9.23	2.02	17.0	98.73
Marvin Shurley	47	156	Boer	01/21/06	58.4	70.5	112.3	41.9	0.50	346.4	8.28	2.20	17.0	99.35
Terry Taylor	21	V0006	Boer	01/16/06	79.3	103.5	145.4	41.9	0.50	464.9	11.11	2.08	17.0	98.09
Henry Johnston	74	3	Boer	01/12/06	49.6	54.0	93.6	39.6	0.47	249.7	6.30	1.38	15.0	99.49
Marvin Shurley	56	5	Boer	01/19/06	62.8	66.1	104.6	38.5	0.46	272.7	7.08	1.76	16.0	99.35
Marvin Shurley	67	183	Boer	01/24/06	72.7	90.3	128.9	38.5	0.46	367.2	9.53	1.70	16.0	98.32
Freman Elam	73	134	Boer	01/01/06	89.2	103.5	136.6	33.0	0.39	334.8	10.13	2.78	18.5	98.46

\* lbs of feed for one lb. of gain.

Table 3. Bucks sorted by Feed Efficiency.

Owner	ID	Owner ID	Breed	Birth date	Weights (lbs)			Gain (lbs)	ADG (lb/d)	Intake (lb)	FE <sup>1</sup>	LEA (in <sup>2</sup> )	RLC (in)	Index
					Entry	Start	End							
Martin Peters	60	218	Boer	12/30/05	45.2	55.1	112.3	57.3	0.68	277.0	4.84	1.84	16.5	100.73
Matthew Victor	35	44	Boer	02/10/06	35.2	38.5	100.2	61.7	0.73	306.5	4.97	1.49	15.5	100.80
Orlin Scrivener	28	Wht ear	Boer	02/06/06	56.2	52.9	123.3	70.5	0.84	352.8	5.00	1.76	16.0	101.04
Orlin Scrivener	31	133	Boer	01/31/06	57.3	50.7	113.4	62.8	0.75	315.0	5.02	1.58	16.0	100.75
Dan Wagner	66	697	Boer	01/15/06	45.2	52.9	123.3	70.5	0.84	355.4	5.04	1.58	16.0	100.95
Matthew Victor	33	24	Boer	01/20/06	46.3	58.4	118.9	60.6	0.72	310.1	5.12	1.84	16.5	100.71
Dan Wagner	59	605	Boer	01/15/06	46.3	49.6	118.9	69.4	0.83	362.9	5.23	1.70	16.0	100.97
Marvin Shurley	50	191	Boer	02/07/06	33.0	46.3	101.3	55.1	0.66	289.5	5.26	1.86	16.5	100.73
Marvin Shurley	68	189	Boer	02/07/06	40.7	44.1	99.1	55.1	0.66	291.8	5.30	1.52	15.5	100.49
B. J. Youngblood	70	32	Boer	02/02/06	50.7	52.9	115.6	62.8	0.75	333.4	5.31	1.76	16.0	100.73
Marvin Shurley	49	174	Boer	01/23/06	44.1	52.9	118.9	66.1	0.79	351.1	5.31	1.70	16.0	100.80
Marvin Shurley	51	177	Boer	01/22/06	49.6	56.2	111.2	55.1	0.66	295.1	5.36	1.72	16.0	100.43
Orlin Scrivener	29	106	Boer	01/26/06	45.2	48.5	124.4	76.0	0.90	418.5	5.51	1.52	15.5	100.96
Marvin Shurley	55	201	Boer	02/11/06	41.9	49.6	107.9	58.4	0.69	325.1	5.57	1.81	16.5	100.62
Paula Lane	38	126	Boer	01/03/06	54.0	52.9	102.4	49.6	0.59	281.5	5.68	1.66	16.0	100.19
Marvin Shurley	44	168	Boer	01/23/06	40.7	49.6	106.8	57.3	0.68	326.4	5.70	1.76	16.0	100.50
Matthew Victor	32	35	Boer	02/10/06	38.5	41.9	95.8	54.0	0.64	310.7	5.76	1.51	15.5	100.34
Paula Lane	36	39	Boer	01/04/06	51.8	62.8	114.5	51.8	0.62	300.7	5.81	1.53	16.0	100.02
Henry Johnston	75	4	Boer	01/29/06	47.4	63.9	132.2	68.3	0.81	400.9	5.87	2.11	17.0	100.82
Marvin Shurley	58	200	Boer	02/11/06	37.4	45.2	98.0	52.9	0.63	311.2	5.89	1.92	16.5	100.54
Kenneth Johnson	22		Boer	01/20/06	55.1	66.1	128.9	62.8	0.75	370.2	5.90	2.01	17.0	100.59
Marvin Shurley	54	126	Boer	01/20/06	76.0	78.2	136.6	58.4	0.69	345.2	5.91	1.79	16.5	100.15
Marvin Shurley	69	110	Boer	01/18/06	41.9	48.5	109.0	60.6	0.72	359.1	5.93	1.58	16.0	100.45
Darwin McLeod	24	V21	Boer	03/06/06	52.9	62.8	111.2	48.5	0.58	294.1	6.07	1.60	16.0	99.89
Dan Wagner	43	603	Boer	02/10/06	38.5	46.3	102.4	56.2	0.67	345.0	6.14	1.59	16.0	100.32
Matthew Victor	34	43	Boer	02/10/06	38.5	45.2	101.3	56.2	0.67	350.8	6.25	1.78	16.0	100.41
Marvin Brooks	26	514	Boer	01/10/06	74.9	88.1	138.8	50.7	0.60	317.1	6.26	1.49	15.5	99.51
Henry Johnston	74	3	Boer	01/12/06	49.6	54.0	93.6	39.6	0.47	249.7	6.30	1.38	15.0	99.49
Paula Lane	37	47	Boer	01/17/06	60.6	74.9	145.4	70.5	0.84	446.4	6.33	1.99	16.5	100.57
Al Paul	65	28	Boer	01/15/06	61.7	72.7	131.1	58.4	0.69	375.9	6.44	1.81	16.5	100.07
Marvin Shurley	52	4	Boer	01/25/06	50.7	63.9	117.8	54.0	0.64	360.5	6.68	1.84	16.5	100.00
Darwin McLeod	23	V20	Boer	02/26/06	58.4	76.0	132.2	56.2	0.67	375.4	6.68	2.01	17.0	100.04
Marvin Shurley	48	180	Boer	01/25/06	52.9	63.9	113.4	49.6	0.59	338.9	6.84	1.61	16.0	99.68
Marvin Shurley	46	166	Boer	01/22/06	68.3	87.0	146.5	59.5	0.71	412.5	6.94	2.04	17.0	99.98
Paula Lane	39	41	Boer	01/17/06	51.8	61.7	107.9	46.3	0.55	321.1	6.94	1.53	16.0	99.55
Al Paul	63	14	Boer	01/15/06	59.5	73.8	130.0	56.2	0.67	396.8	7.07	1.84	16.5	99.85
Marvin Shurley	56	5	Boer	01/19/06	62.8	66.1	104.6	38.5	0.46	272.7	7.08	1.76	16.0	99.35
Marvin Shurley	57	172	Boer	01/23/06	55.1	65.0	111.2	46.3	0.55	329.3	7.12	1.84	16.5	99.65
Marla Julich	41	6	Boer	01/26/06	65.0	76.0	125.6	49.6	0.59	364.8	7.36	1.83	16.5	99.53
Marvin Shurley	53	130	Boer	01/20/06	56.2	66.1	114.5	48.5	0.58	365.7	7.55	1.61	16.0	99.44
Marla Julich	42	2	Boer	01/12/06	67.2	82.6	138.8	56.2	0.67	426.0	7.58	1.92	16.5	99.65
Orlin Scrivener	30	115	Boer	01/31/06	61.7	73.8	123.3	49.6	0.59	379.0	7.65	1.87	16.5	99.49
Marvin Shurley	45	118	Boer	01/19/06	68.3	84.8	137.7	52.9	0.63	412.7	7.81	1.94	16.5	99.46
Freman Elam	71	136	Boer	01/01/06	90.3	92.5	138.8	46.3	0.55	370.9	8.02	2.30	17.5	99.32
Marla Julich	40	3	Boer	01/21/06	67.2	81.5	146.5	65.0	0.77	527.3	8.12	2.00	17.0	99.85
Marvin Shurley	47	156	Boer	01/21/06	58.4	70.5	112.3	41.9	0.50	346.4	8.28	2.20	17.0	99.35
Orlin Scrivener	27	120	Boer	02/04/06	63.9	73.8	137.7	63.9	0.76	536.9	8.41	1.51	15.5	99.51
Jerry Hicks	20	Wh 14	Boer	12/24/05	99.1	112.3	161.9	49.6	0.59	417.5	8.42	2.48	18.0	99.22
Marvin Brooks	25	511	Boer	01/10/06	77.1	100.2	145.4	45.2	0.54	416.9	9.23	2.02	17.0	98.73
Freman Elam	72	138	Boer	01/01/06	90.3	105.7	153.1	47.4	0.56	438.9	9.27	2.34	17.5	98.88
Marvin Shurley	67	183	Boer	01/24/06	72.7	90.3	128.9	38.5	0.46	367.2	9.53	1.70	16.0	98.32
Freman Elam	73	134	Boer	01/01/06	89.2	103.5	136.6	33.0	0.39	334.8	10.13	2.78	18.5	98.46
Terry Taylor	21	V0006	Boer	01/16/06	79.3	103.5	145.4	41.9	0.50	464.9	11.11	2.08	17.0	98.09

\* lbs of feed for one lb. of gain.

Table 4. Estimated weights (at 120, 150, and 180 days of age) and age (at 60, 80, and 100 lbs).

OWNER	ID	BREED	WT 120D	WT 150D	WT 180D	AGE 60W	AGE 80W	AGE 100	AGE	Beg wt	adg*
Al Paul	63	Boer	71	90	109	102	134	165	136	74	0.63
Al Paul	65	Boer	69	88	108	107	137	168	136	73	0.66
B. J. Youngblood	70	Boer	62	82	102	117	147	177	118	53	0.67
Dan Wagner	43	Boer	61	82	103	119	148	176	110	46	0.69
Dan Wagner	59	Boer	43	67	91	141	166	191	136	50	0.80
Dan Wagner	66	Boer	47	72	97	135	159	183	136	53	0.83
Darwin McLeod	23	Boer	98	118	137	61	92	123	94	76	0.65
Darwin McLeod	24	Boer	87	104	122	74	108	142	86	63	0.58
Freman Elam	71	Boer	82	99	117	83	117	152	150	93	0.58
Freman Elam	72	Boer	99	113	128	42	83	123	150	106	0.50
Freman Elam	73	Boer	90	104	117	52	97	142	150	104	0.45
Henry Johnston	74	Boer	51	66	80	138	179	221	139	54	0.48
Henry Johnston	75	Boer	68	91	114	110	136	162	122	64	0.77
Jerry Hicks	20	Boer	101	116	131	37	77	118	158	112	0.50
Kenneth Johnson	22	Boer	63	84	105	116	145	173	131	66	0.70
Marla Julich	40	Boer	83	104	125	86	115	144	130	81	0.69
Marla Julich	41	Boer	82	100	118	84	117	150	125	76	0.60
Marla Julich	42	Boer	78	99	121	96	123	151	139	83	0.73
Martin Peters	60	Boer	40	59	78	151	183	214	152	55	0.64
Marvin Brooks	25	Boer	86	103	120	74	109	144	141	100	0.57
Marvin Brooks	26	Boer	84	99	114	72	112	151	141	88	0.50
Marvin Shurley	44	Boer	46	68	89	139	167	195	128	50	0.72
Marvin Shurley	45	Boer	84	103	122	82	114	146	132	85	0.63
Marvin Shurley	46	Boer	89	109	129	77	107	137	129	87	0.67
Marvin Shurley	47	Boer	71	86	101	98	138	179	130	70	0.49
Marvin Shurley	48	Boer	64	82	100	114	147	180	126	64	0.60
Marvin Shurley	49	Boer	49	72	96	134	160	185	128	53	0.78
Marvin Shurley	50	Boer	54	75	95	128	158	187	113	46	0.68
Marvin Shurley	51	Boer	55	74	94	128	159	190	129	56	0.65
Marvin Shurley	52	Boer	69	88	106	105	138	170	126	64	0.62
Marvin Shurley	53	Boer	66	85	103	111	143	175	131	66	0.63
Marvin Shurley	54	Boer	71	94	118	107	132	157	131	78	0.80
Marvin Shurley	55	Boer	62	83	104	118	146	174	109	50	0.71
Marvin Shurley	56	Boer	59	76	93	121	156	191	132	66	0.57
Marvin Shurley	57	Boer	67	84	100	107	143	180	128	65	0.55
Marvin Shurley	58	Boer	58	77	96	124	155	186	109	45	0.64
Marvin Shurley	67	Boer	96	108	119	23	76	129	127	90	0.38
Marvin Shurley	68	Boer	57	77	98	125	154	182	113	44	0.70
Marvin Shurley	69	Boer	46	67	89	140	167	195	133	48	0.73
Matthew Victor	32	Boer	55	75	95	127	157	187	110	42	0.67
Matthew Victor	33	Boer	56	77	97	125	155	184	131	58	0.68
Matthew Victor	34	Boer	59	80	100	122	151	179	110	45	0.69
Matthew Victor	35	Boer	55	76	97	128	156	184	110	39	0.72
Orlin Scrivener	27	Boer	82	104	126	89	117	144	116	74	0.73
Orlin Scrivener	28	Boer	65	89	113	113	138	164	114	53	0.80
Orlin Scrivener	29	Boer	54	81	109	127	149	171	125	48	0.91
Orlin Scrivener	30	Boer	79	96	113	86	121	157	120	74	0.56
Orlin Scrivener	31	Boer	53	76	100	129	155	180	120	51	0.78
Paula Lane	36	Boer	51	69	87	135	168	201	147	63	0.61
Paula Lane	37	Boer	72	97	121	104	129	154	134	75	0.80
Paula Lane	38	Boer	37	58	78	154	183	212	148	53	0.69
Paula Lane	39	Boer	57	74	90	125	161	197	134	62	0.55
Terry Taylor	21	Boer	103	118	133	34	74	115	135	104	0.50

\* adg estimated by regression analysis and therefore may differ from ADG in other tables.



32, 35, 43 68, 69		34, 44, 49, 50 55, 58, 66
29, 38, 39, 48 52, 59, 74		33, 36, 51 60, 70, 75
23, 30, 41, 53 56, 57, 63		22, 24, 28, 31 37, 47, 65
21, 25, 42, 54 67, 71, 73		20, 26, 27, 40 45, 46, 72

Calan feeder side

Fire feeder side

Map of South Barn showing location of bucks.