



**2008  
OKLAHOMA  
MEAT BUCK PERFORMANCE TEST  
FINAL REPORT  
(12<sup>th</sup> Annual)**

May 3 - August 16, 2008

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 twelfth annual meat buck performance test started May 3, 2008 with 35 bucks enrolled from 8 different breeders. Geographical distribution is given in the table below.

<b>State</b>	<b>Bucks</b>
KS	4
MO	3
NE	3
OK	3
TX	22
<b>Total</b>	<b>35</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.

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

<b>Data</b>	<b>Total</b>
Average of Entry Weight (lbs)	45.4
Average of Entry Age (days)	92

## Adjustment Period

The Feed Intake Recording Equipment (FIRE) system was used for all animals. 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. 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 FIRE system.

The area immediately around 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.

This year we were fortunate to hire a second year veterinary student from Oklahoma State University, Ms. Madeline Deatherage. Madeline 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, 2006, 2007, and 2008.

## 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.

### Gain

The official performance test started on May 21 after the adjustment period was finished. Weights at the beginning of the test averaged 51 lbs with a range of 32 to 84 lbs. Weights at the end of the test averaged 97 lbs with a range of 65 to 139 lbs. **Weight gain for the test averaged 47 lbs with a range of 29 to 63 lbs.**

### Average Daily Gain (ADG)

For the test, the bucks gained on averaged 0.55 lbs/day with a range of 0.35 lbs/day to 0.75 lbs/day.

### Feed Efficiency (Feed Conversion Ratio)

For the test, the bucks consumed an average of 296 lbs of feed with a range of 180 to 449 lbs.

For the test, the bucks averaged a feed efficiency of 6.48 (feed efficiency is defined as the number of lbs. of feed needed for one lbs. of gain), with a range of 3.75 to 10.56.

### Muscling

The average loin eye area as determined by ultrasonography was 1.79 square inches with a range of 1.05 to 2.48 square inches and the average left rear leg circumference was 14.1 inches with a range of 11.0 to 17.0 inches.

### Index

For 2008, 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:

- Ms. Jessica Stephens of Elm Creek, NE  
for having the Top-Indexing buck  
in the 2008 Oklahoma Meat Buck Performance Test

Also, deserving congratulations are:

- Mr. Sam Stephens of Elm Creek, NE  
for having the #1 Fastest-Gaining buck
- Ms. Jessica Stephens of Elm Creek, NE  
for having the #2 Fastest-Gaining buck
- Mr. Orlin Scrivener of Cabool, MO  
for having the #3 Fastest-Gaining buck
- Mr. Sam Stephens of Elm Creek, NE  
for having the #4 (tie) Fastest-Gaining buck
- Mr. Martin Peters of Barksdale, TX  
for having the #4 (tie) Fastest-Gaining buck
- Mr. Marvin Shurley of Sonora, 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. Madeline Deatherage for her 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 Bluebonnet Feeds of Ardmore, OK for custom mixing the feed.

2008 Buck Performance Test supervised by Dr. Steve Hart  
Report prepared by Drs. Steve Hart and Terry A. Gipson  
Goat Extension Specialists  
Langston University

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Table 1. Bucks sorted by Index score.

Owner	ID	Breed	Birth date	Weights (lbs)			Gain (lbs)	ADG (lb/d)	Intake (lb)	FE*	LEA (in <sup>2</sup> )	RLC (in)	Index
				Entry	Start	End							
Stephens J.	36	Boer	02/21/08	30	37	99	62	0.74	256.9	4.1	1.6	14.3	101.20
Shurley	65	Ranger	02/19/08	42	44	99	55	0.65	247.6	4.5	2.1	15.0	101.01
Stephens S.	37	Boer	02/24/08	43	49	112	63	0.75	286.0	4.5	1.6	14.3	100.99
Stephens S.	35	Boer	02/16/08	52	54	112	58	0.69	280.1	4.8	2.1	14.5	100.88
Scrivener	51	Boer	12/11/07	66	70	130	60	0.71	332.2	5.5	2.0	17.0	100.72
Shurley	43	Ranger	02/01/08	52	54	102	48	0.57	180.1	3.8	1.8	14.5	100.66
Peters	64	Boer		46	49	107	58	0.69	375.5	6.5	1.9	15.3	100.51
Peters	61	Boer		59	59	111	52	0.62	266.7	5.1	1.9	14.5	100.47
Shurley	44	Ranger	02/17/08	52	61	111	50	0.6	265.5	5.3	2.0	15.0	100.41
Shurley	60	B x S	02/06/08	36	42	86	44	0.52	206.9	4.7	1.8	13.0	100.36
Shurley	40	BXS	02/13/08	34	36	84	48	0.57	260.4	5.4	1.4	14.0	100.33
Shurley	59	Ranger	02/11/08	35	37	82	45	0.54	283.1	6.3	1.8	14.5	100.26
Sweepston	49	Boer	12/22/07	57	71	124	53	0.63	347.9	6.6	2.5	14.5	100.21
Shurley	45	Spanish	02/12/08	37	37	81	44	0.52	245.7	5.6	1.5	13.8	100.16
Shurley	58	B x S	02/08/08	34	38	78	40	0.48	212.8	5.3	1.6	13.3	100.14
Shurley	63	Ranger	02/08/08	33	36	79	43	0.51	270.8	6.3	2.1	12.0	100.12
Newman	70	Boer	02/18/08	46	50	94	44	0.52	258.3	5.9	1.8	14.8	100.09
Shurley	48	Spanish	02/08/08	31	36	84	48	0.57	329.7	6.9	1.7	13.8	100.09
Morrison	53	Boer	01/23/08	48	50	100	50	0.6	313.0	6.3	1.6	13.5	100.04
Shurley	39	Ranger	02/19/08	40	44	95	51	0.61	413.3	8.1	1.9	16.0	100.04
Shurley	38	BXS	02/11/08	37	43	85	42	0.5	216.2	5.1	1.4	12.8	100.00
Sandness	68	Kiko	01/24/08	48	55	102	47	0.56	293.6	6.2	1.5	14.0	99.88
Scrivener	54	Boer	12/14/07	72	84	139	55	0.65	424.8	7.7	2.3	14.8	99.83
Scrivener	52	Boer	12/12/07	76	84	135	51	0.61	425.1	8.3	2.4	17.0	99.74
Shurley	67	Ranger	02/19/08	30	33	69	36	0.43	184.9	5.1	1.1	11.0	99.68
Newman	71	Boer	02/18/08	47	56	97	41	0.49	317.9	7.8	2.2	14.0	99.58
Shurley	46	Ranger	02/07/08	34	42	85	43	0.51	333.1	7.7	1.3	14.3	99.50
Shurley	56	Spanish	02/08/08	34	41	76	35	0.42	247.2	7.1	1.4	14.0	99.47
Sweepston	50	Boer	12/17/07	65	80	128	48	0.57	426.5	8.9	2.3	16.3	99.43
Shurley	47	Crossbred	02/08/08	46	48	83	35	0.42	238.5	6.8	1.4	13.5	99.37
Sandness	69	Kiko	01/31/08	51	57	100	43	0.51	377.4	8.8	1.9	12.8	99.16
Shurley	66	Spanish	02/11/08	30	32	65	33	0.39	250.9	7.6	1.3	11.3	99.14
Shurley	62	Spanish	02/08/08	48	54	83	29	0.35	214.8	7.4	1.7	13.5	99.09
Shurley	57	Ranger	02/05/08	51	57	101	44	0.52	449.2	10.2	1.8	14.5	98.93
Shurley	55	Ranger	02/07/08	48	52	83	31	0.37	327.3	10.6	2.0	13.0	98.50
		<b>Average</b>		<b>45.4</b>	<b>50.6</b>	<b>97.2</b>	<b>46.5</b>	<b>0.55</b>	<b>296.0</b>	<b>6.48</b>	<b>1.79</b>	<b>14.1</b>	<b>100.00</b>

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

Table 2. Bucks sorted by Gain (ADG).

Owner	ID	Breed	Birth date	Weights (lbs)			Gain (lbs)	ADG (lb/d)	Intake (lb)	FE*	LEA (in <sup>2</sup> )	RLC (in)	Index
				Entry	Start	End							
Stephens S.	37	Boer	02/24/08	43	49	112	63	0.75	286.0	4.5	1.6	14.3	100.99
Stephens J.	36	Boer	02/21/08	30	37	99	62	0.74	256.9	4.1	1.6	14.3	101.20
Scrivener	51	Boer	12/11/07	66	70	130	60	0.71	332.2	5.5	2.0	17.0	100.72
Stephens S.	35	Boer	02/16/08	52	54	112	58	0.69	280.1	4.8	2.1	14.5	100.88
Peters	64	Boer		46	49	107	58	0.69	375.5	6.5	1.9	15.3	100.51
Shurley	65	Ranger	02/19/08	42	44	99	55	0.65	247.6	4.5	2.1	15.0	101.01
Scrivener	54	Boer	12/14/07	72	84	139	55	0.65	424.8	7.7	2.3	14.8	99.83
Swepton	49	Boer	12/22/07	57	71	124	53	0.63	347.9	6.6	2.5	14.5	100.21
Peters	61	Boer		59	59	111	52	0.62	266.7	5.1	1.9	14.5	100.47
Shurley	39	Ranger	02/19/08	40	44	95	51	0.61	413.3	8.1	1.9	16.0	100.04
Scrivener	52	Boer	12/12/07	76	84	135	51	0.61	425.1	8.3	2.4	17.0	99.74
Shurley	44	Ranger	02/17/08	52	61	111	50	0.6	265.5	5.3	2.0	15.0	100.41
Morrison	53	Boer	01/23/08	48	50	100	50	0.6	313.0	6.3	1.6	13.5	100.04
Shurley	43	Ranger	02/01/08	52	54	102	48	0.57	180.1	3.8	1.8	14.5	100.66
Shurley	40	BXS	02/13/08	34	36	84	48	0.57	260.4	5.4	1.4	14.0	100.33
Shurley	48	Spanish	02/08/08	31	36	84	48	0.57	329.7	6.9	1.7	13.8	100.09
Swepton	50	Boer	12/17/07	65	80	128	48	0.57	426.5	8.9	2.3	16.3	99.43
Sandness	68	Kiko	01/24/08	48	55	102	47	0.56	293.6	6.2	1.5	14.0	99.88
Shurley	59	Ranger	02/11/08	35	37	82	45	0.54	283.1	6.3	1.8	14.5	100.26
Shurley	60	B x S	02/06/08	36	42	86	44	0.52	206.9	4.7	1.8	13.0	100.36
Shurley	45	Spanish	02/12/08	37	37	81	44	0.52	245.7	5.6	1.5	13.8	100.16
Newman	70	Boer	02/18/08	46	50	94	44	0.52	258.3	5.9	1.8	14.8	100.09
Shurley	57	Ranger	02/05/08	51	57	101	44	0.52	449.2	10.2	1.8	14.5	98.93
Shurley	63	Ranger	02/08/08	33	36	79	43	0.51	270.8	6.3	2.1	12.0	100.12
Shurley	46	Ranger	02/07/08	34	42	85	43	0.51	333.1	7.7	1.3	14.3	99.50
Sandness	69	Kiko	01/31/08	51	57	100	43	0.51	377.4	8.8	1.9	12.8	99.16
Shurley	38	BXS	02/11/08	37	43	85	42	0.5	216.2	5.1	1.4	12.8	100.00
Newman	71	Boer	02/18/08	47	56	97	41	0.49	317.9	7.8	2.2	14.0	99.58
Shurley	58	B x S	02/08/08	34	38	78	40	0.48	212.8	5.3	1.6	13.3	100.14
Shurley	67	Ranger	02/19/08	30	33	69	36	0.43	184.9	5.1	1.1	11.0	99.68
Shurley	56	Spanish	02/08/08	34	41	76	35	0.42	247.2	7.1	1.4	14.0	99.47
Shurley	47	Crossbred	02/08/08	46	48	83	35	0.42	238.5	6.8	1.4	13.5	99.37
Shurley	66	Spanish	02/11/08	30	32	65	33	0.39	250.9	7.6	1.3	11.3	99.14
Shurley	55	Ranger	02/07/08	48	52	83	31	0.37	327.3	10.6	2.0	13.0	98.50
Shurley	62	Spanish	02/08/08	48	54	83	29	0.35	214.8	7.4	1.7	13.5	99.09
		<b>Average</b>		<b>45.4</b>	<b>50.6</b>	<b>97.2</b>	<b>46.5</b>	<b>0.55</b>	<b>296.0</b>	<b>6.48</b>	<b>1.79</b>	<b>14.1</b>	<b>100.00</b>

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

Table 3. Bucks sorted by Feed Efficiency.

Owner	ID	Breed	Birth date	Weights (lbs)			Gain (lbs)	ADG (lb/d)	Intake (lb)	FE*	LEA (in <sup>2</sup> )	RLC (in)	Index
				Entry	Start	End							
Shurley	43	Ranger	02/01/08	52	54	102	48	0.57	180.1	3.8	1.8	14.5	100.66
Stephens J.	36	Boer	02/21/08	30	37	99	62	0.74	256.9	4.1	1.6	14.3	101.20
Stephens S.	37	Boer	02/24/08	43	49	112	63	0.75	286.0	4.5	1.6	14.3	100.99
Shurley	65	Ranger	02/19/08	42	44	99	55	0.65	247.6	4.5	2.1	15.0	101.01
Shurley	60	B x S	02/06/08	36	42	86	44	0.52	206.9	4.7	1.8	13.0	100.36
Stephens S.	35	Boer	02/16/08	52	54	112	58	0.69	280.1	4.8	2.1	14.5	100.88
Peters	61	Boer		59	59	111	52	0.62	266.7	5.1	1.9	14.5	100.47
Shurley	38	BXS	02/11/08	37	43	85	42	0.5	216.2	5.1	1.4	12.8	100.00
Shurley	67	Ranger	02/19/08	30	33	69	36	0.43	184.9	5.1	1.1	11.0	99.68
Shurley	44	Ranger	02/17/08	52	61	111	50	0.6	265.5	5.3	2.0	15.0	100.41
Shurley	58	B x S	02/08/08	34	38	78	40	0.48	212.8	5.3	1.6	13.3	100.14
Shurley	40	BXS	02/13/08	34	36	84	48	0.57	260.4	5.4	1.4	14.0	100.33
Scrivener	51	Boer	12/11/07	66	70	130	60	0.71	332.2	5.5	2.0	17.0	100.72
Shurley	45	Spanish	02/12/08	37	37	81	44	0.52	245.7	5.6	1.5	13.8	100.16
Newman	70	Boer	02/18/08	46	50	94	44	0.52	258.3	5.9	1.8	14.8	100.09
Sandness	68	Kiko	01/24/08	48	55	102	47	0.56	293.6	6.2	1.5	14.0	99.88
Morrison	53	Boer	01/23/08	48	50	100	50	0.6	313.0	6.3	1.6	13.5	100.04
Shurley	59	Ranger	02/11/08	35	37	82	45	0.54	283.1	6.3	1.8	14.5	100.26
Shurley	63	Ranger	02/08/08	33	36	79	43	0.51	270.8	6.3	2.1	12.0	100.12
Peters	64	Boer		46	49	107	58	0.69	375.5	6.5	1.9	15.3	100.51
Sweepston	49	Boer	12/22/07	57	71	124	53	0.63	347.9	6.6	2.5	14.5	100.21
Shurley	47	Crossbred	02/08/08	46	48	83	35	0.42	238.5	6.8	1.4	13.5	99.37
Shurley	48	Spanish	02/08/08	31	36	84	48	0.57	329.7	6.9	1.7	13.8	100.09
Shurley	56	Spanish	02/08/08	34	41	76	35	0.42	247.2	7.1	1.4	14.0	99.47
Shurley	62	Spanish	02/08/08	48	54	83	29	0.35	214.8	7.4	1.7	13.5	99.09
Shurley	66	Spanish	02/11/08	30	32	65	33	0.39	250.9	7.6	1.3	11.3	99.14
Scrivener	54	Boer	12/14/07	72	84	139	55	0.65	424.8	7.7	2.3	14.8	99.83
Shurley	46	Ranger	02/07/08	34	42	85	43	0.51	333.1	7.7	1.3	14.3	99.50
Newman	71	Boer	02/18/08	47	56	97	41	0.49	317.9	7.8	2.2	14.0	99.58
Shurley	39	Ranger	02/19/08	40	44	95	51	0.61	413.3	8.1	1.9	16.0	100.04
Scrivener	52	Boer	12/12/07	76	84	135	51	0.61	425.1	8.3	2.4	17.0	99.74
Sandness	69	Kiko	01/31/08	51	57	100	43	0.51	377.4	8.8	1.9	12.8	99.16
Sweepston	50	Boer	12/17/07	65	80	128	48	0.57	426.5	8.9	2.3	16.3	99.43
Shurley	57	Ranger	02/05/08	51	57	101	44	0.52	449.2	10.2	1.8	14.5	98.93
Shurley	55	Ranger	02/07/08	48	52	83	31	0.37	327.3	10.6	2.0	13.0	98.50
		<b>Average</b>		<b>45.4</b>	<b>50.6</b>	<b>97.2</b>	<b>46.5</b>	<b>0.55</b>	<b>296.0</b>	<b>6.48</b>	<b>1.79</b>	<b>14.1</b>	<b>100.00</b>

\* 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	tag	ADG	Age @ start test	Pred wt @ 120d	Pred wt @ 150d	Pred wt @ 180d	Pred age @ 60#	Pred age @ 80#	Pred age @ 100#
Morrison	53	0.56	119	51	68	85	136	171	207
Newman	70	0.50	93	64	79	94	112	152	191
Newman	71	0.51	93	65	81	96	109	149	188
Sandness	68	0.59	118	55	73	91	128	162	196
Sandness	69	0.55	111	68	84	101	106	142	178
Scrivener	51	0.67	162	46	66	86	141	171	201
Scrivener	52	0.65	161	58	78	97	123	154	184
Scrivener	54	0.72	159	54	75	97	129	157	185
Shurley	38	0.45	100	52	65	79	138	182	227
Shurley	39	0.59	92	59	77	95	121	155	189
Shurley	40	0.53	98	48	64	80	143	180	218
Shurley	43	0.47	110	64	78	92	111	154	196
Shurley	44	0.57	94	72	89	106	99	134	169
Shurley	45	0.49	99	49	63	78	143	184	225
Shurley	46	0.53	104	45	61	77	148	186	223
Shurley	47	0.43	103	57	70	83	127	174	221
Shurley	48	0.57	103	45	62	79	146	182	217
Shurley	55	0.47	104	57	71	85	126	169	211
Shurley	56	0.44	103	46	59	72	152	198	244
Shurley	57	0.63	106	63	82	101	116	147	179
Shurley	58	0.46	103	45	59	73	152	196	240
Shurley	59	0.50	100	45	60	76	149	189	228
Shurley	60	0.48	105	47	61	76	147	189	231
Shurley	62	0.42	103	59	71	84	123	170	218
Shurley	63	0.49	103	45	59	74	151	192	232
Shurley	65	0.59	92	62	79	97	117	151	185
Shurley	66	0.37	100	39	50	62	176	230	284
Shurley	67	0.33	92	42	52	62	175	236	298
Stephens J.	36	0.67	90	54	74	94	129	159	189
Stephens S.	35	0.64	95	68	87	106	108	139	170
Stephens S.	37	0.70	87	74	95	116	100	129	157
Sweepston	49	0.69	151	47	68	88	139	168	197
Sweepston	50	0.71	156	49	71	92	135	163	191

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

↑ N

Calan feeder side			
			46, 56, 58, 63 48, 66, 67, 36
			64, 37, 65, 39 38, 45, 60, 59 40
			69, 57, 53, 68 55, 62, 71, 70 47
			52, 54, 51, 50 61, 49, 43, 44 35
			Fire feeder side

Map of South Barn showing location of bucks.