

Test Staff

Manager: *Barney Howard*

Assistants: *Eddie Woods, Justin Adams*

Extension Assistants: *Tony Johnson, Amber Reece*

Veterinarian- *Dr. Dustin Hulsey*

Technical Advisory Committee

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Animal Scientist- *Brian Freking*

Area Food/Animal Quality Health Specialist: *Dr. Barry Whitworth*

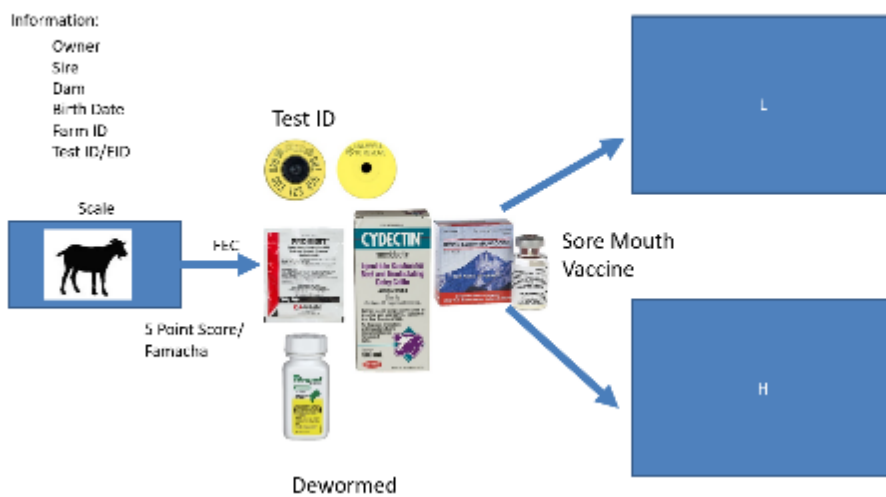
LeFlore County Educator – *Amber Reece*

Pontotoc County Educator- *Justin McDaniel*

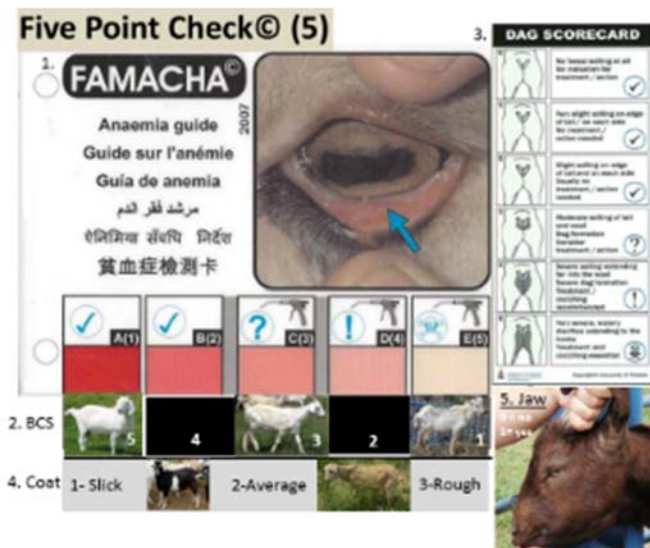
This year 49 head of goats from 7 different states (AL, GA, KS, MO, MS, OK, TX) enrolled with a maximum per producer being 4 head. Our biggest issue this year for health was pneumonia. Weather was conducive for stress on these animals as well as the comingling from all these different states. One goat out of 49 head did not gain weight during the 84 day test period. This year 8 out of 49 head of goats needed to be dewormed after arrival.

Rainfall weather however, was fairly conducive for animals to gain and since numbers were based on an average stocking rate forage availability was never an issue at these stocking rates. We did deworm all goats upon arrival after fecal samples were obtained and counted. During the acclimation phase of test, goats that had fecal counts above 2000 epg were placed together in pen H and those below 2000 epg were comingled in pen L (Figure 1). Upon completion of the acclimation period any goats that didn't drop below 2000 would have been sent home. All goats dewormed upon arrival had close to a 95% reduction in fecal egg counts. Once this level of low fecal egg counts was established all goats were comingled and the test started on 5 July 2016.

Figure 1. Arrival Procedure

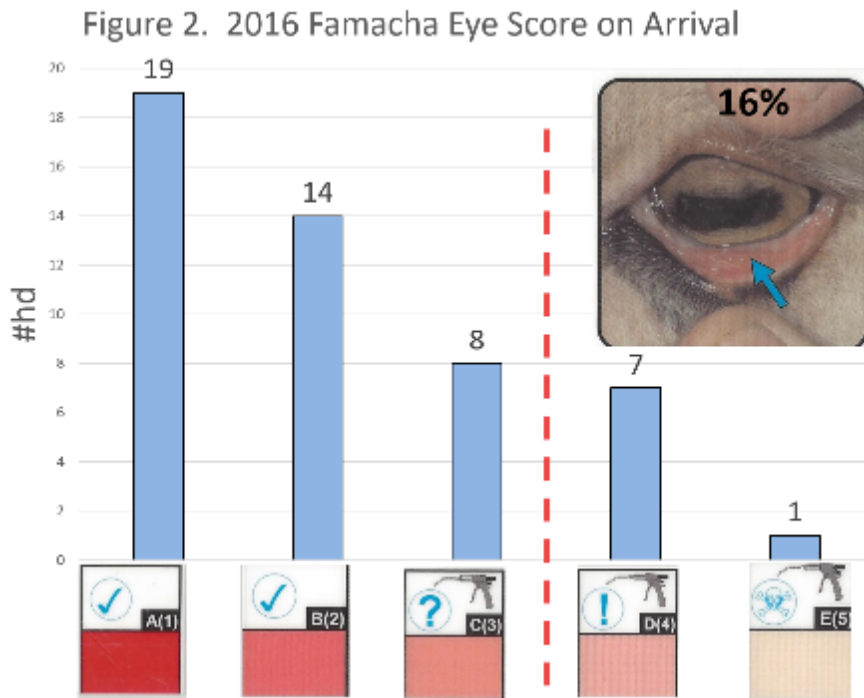


We again utilized the Five Point Check© system outlined below as used in Maryland's test to hopefully gain similar information on goats at two locations. We appreciate all the producers from all the states involved in this study as it helps the entire industry to see what is likely going on at home and across the United States.



Below are some charts that may help provide some valuable information as a group of goats compared to searching out individual animals.

Figure 2. Initial Eye Scores (6/24/2016).



The initial eye scores showed that we should have dewormed about 16% of the goats however, we don't deworm on eye score alone and verified first with matching individual fecal egg counts.

Figure 3. Initial Fecal Egg Counts (6/24/2016).

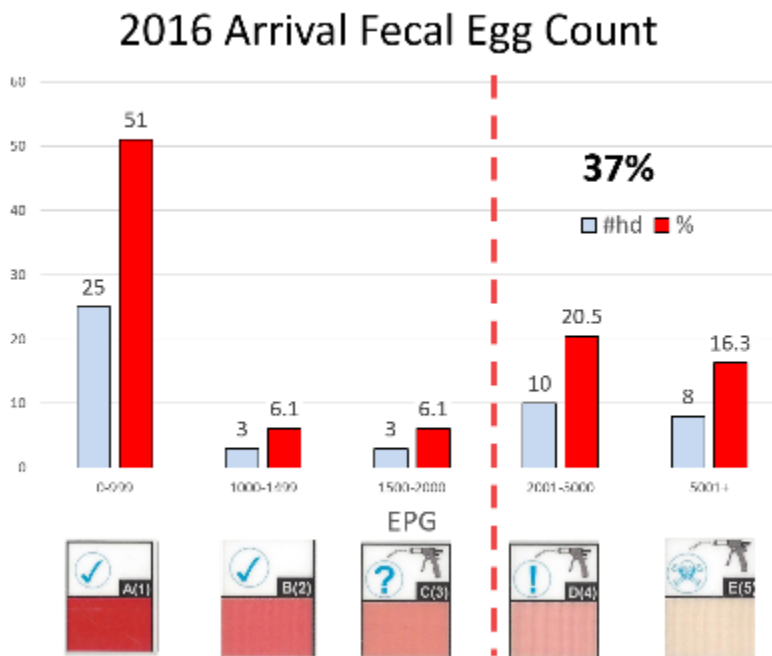


Figure 3 shows we needed to deworm 37% suggesting the Famacha scoring system does work fairly well but still has some individual animal variation and probably more so in younger animals.

Any fecal egg count during the test over 2000 was deemed to be anemic and were then dewormed with the following protocol as suggested by our test veterinarian per our client/patient relationship. Chart 1 shows the protocol followed to deworm the goats when required.

Chart 1. **Deworming Protocol 2016**

I. Arrival



+

+

II.



0 hr after FEC
+24 hr.
Feed/H2O
withdrawl

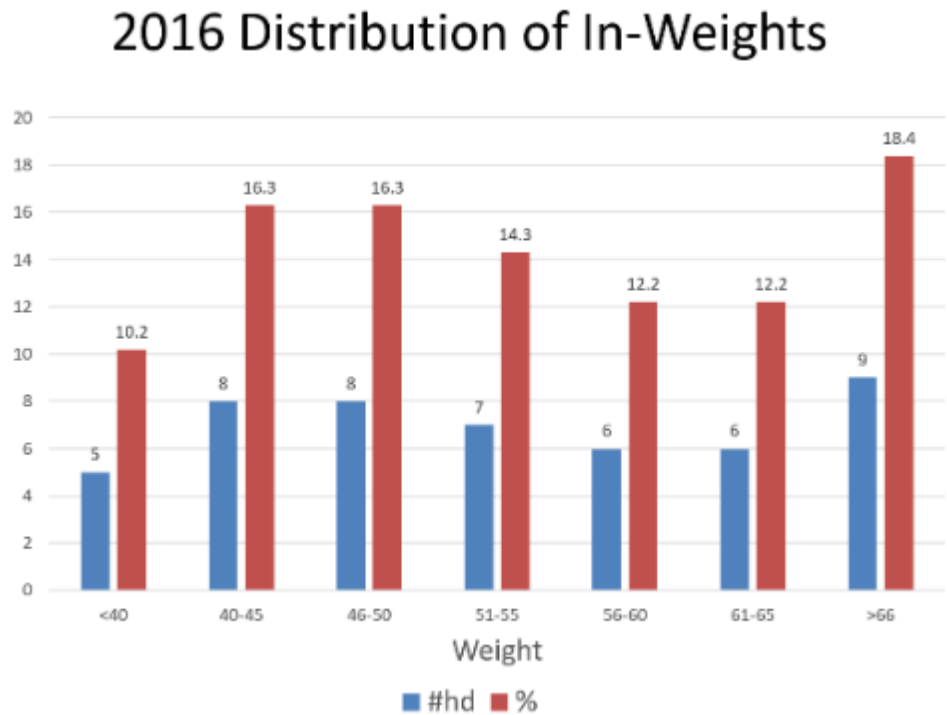
Initial+12 hr.
2nd
dose

All goats were given arrival protocol with fecal samples collected prior to treatment. After the 10 day acclimation time goats were placed on test. Any goat with >2000 (Fecal Egg Count) eggs per gram was determined they were dewormed with protocol II, which no matter what time frame of the test we utilized that product for that treatment. Individual animal data matches these color codes to help visualize what product was working or not working for those animals.

Protocol II utilized a feed and water withdrawl time of 24 hrs. After the initial deworming coinciding with a copasure bolus administration a second Valbazen dose 12 hours later was utilized to see if this was a more effective approach. We've conclude here this treatment has shown to be very effective over the last two years. Original arrival Protocol I uses three different chemical families to see if the efficacy would reduce the FEC in all animals that may be resistant to one product over another. Again all products given were under the direction of a VCPR and any products mentioned should be administered only in such a relationship.

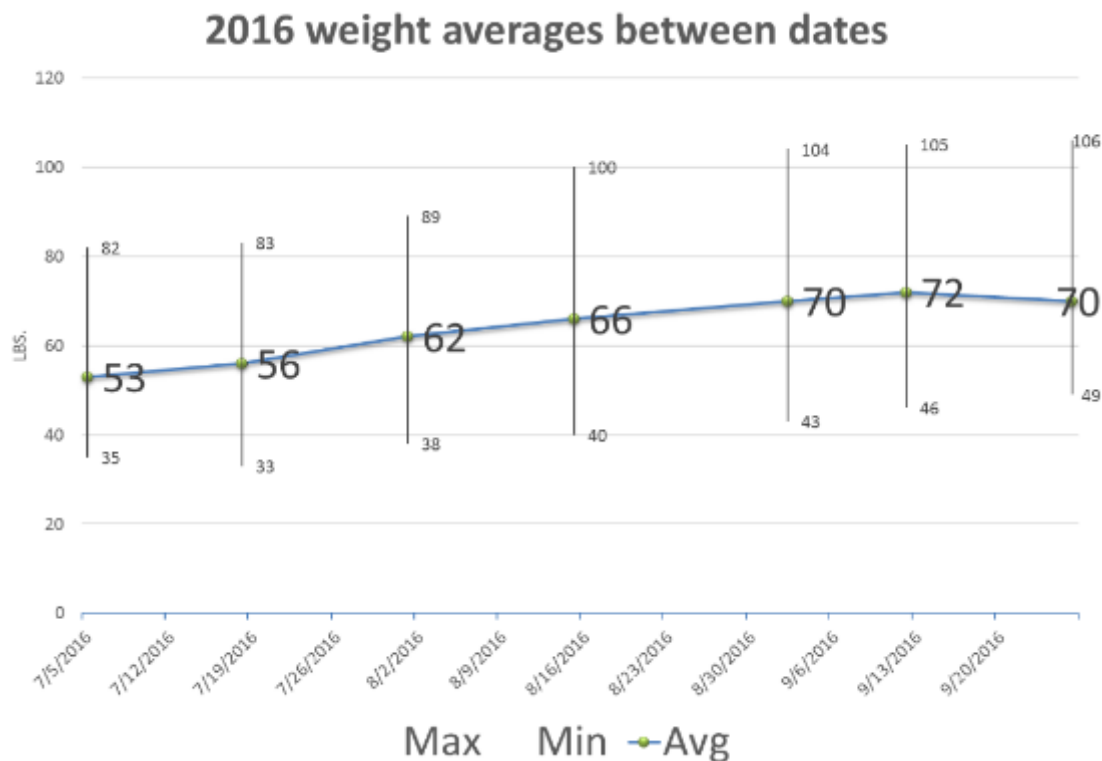
The distribution of weights is shown (figure 4) with a majority of the goats weighing between 40 and 55 pounds and the average starting weight of 53 lbs. as shown in figure 4. Historically goats lose weight typically in those 1st twenty-one days so as they acclimate to a new environment they then start growing as chart in figure 4 shows there is quite a variation in those animals.

Figure 4. Initial Weights (7/5/2016).



Average daily gain is obviously an important trait to measure as producer still get paid by weight so figures 5&6 graphs the overall weight and ADG for each weigh date. Some of these weigh dates are only 10-14 days apart and therefore we did anticipate some variation and this may only give a snapshot in time to what was going on. Ultimately, we are most interested in the difference between the initial weight and final weight.

Figure 5. Weight Averages with ranges included.



The nutritional goal was to have the goats gain close to 0.25 lbs. per day based on supplementing only 0.5 lbs. of the goat test ration we used hopefully to stimulate more forage intake but also make sure animals received the minimum nutrition for protein and energy. Any gain shown in the chart that goes above 0.25 should indicate a foraging efficient animal. The diet used is shown in the Appendix.

Another trait of interest is the fecal egg counts (Fig. 7) measured in eggs per gram. This number is indicative of natural resistance to worms. This test tries to identify animals that continually have low fecal egg counts and hopefully results in higher gains but primarily correlates to less inputs in anthelmintic. This graph shows the averages and min/max of the group. Individual FEC are shown in tables under each animal.

Figure 6. Average Daily Gain.

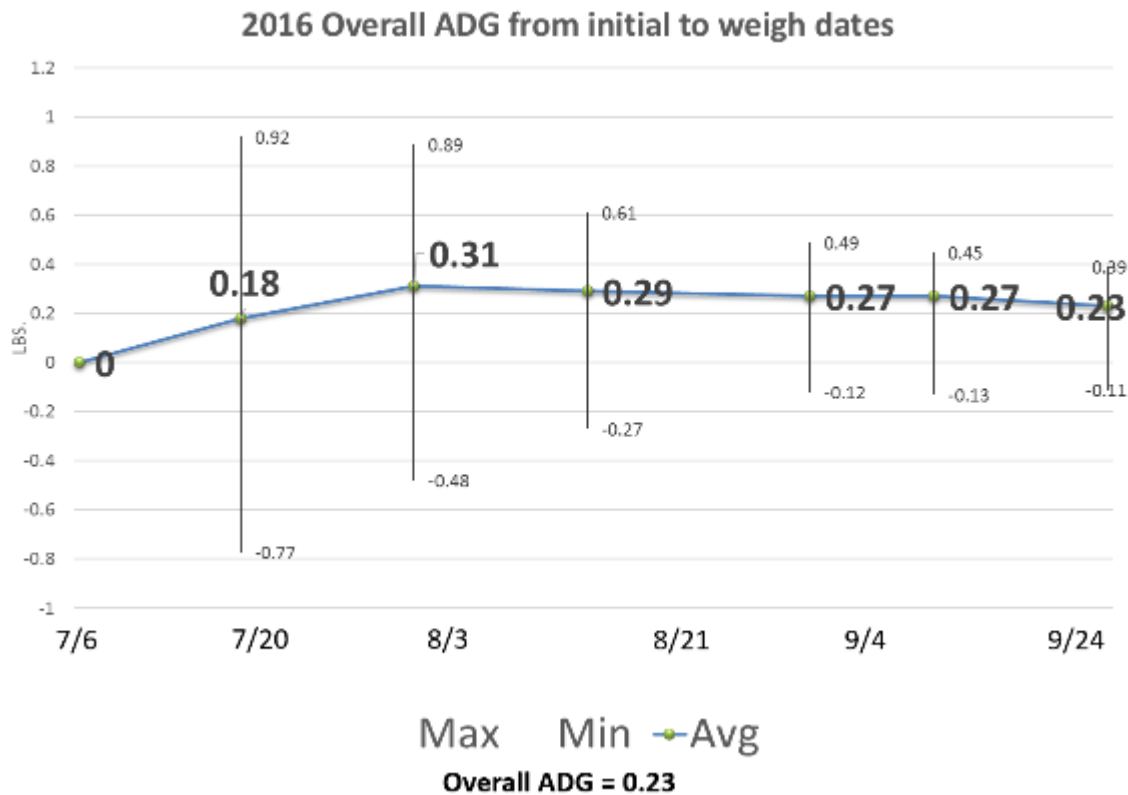


Figure 7. Fecal Egg Count Trend.

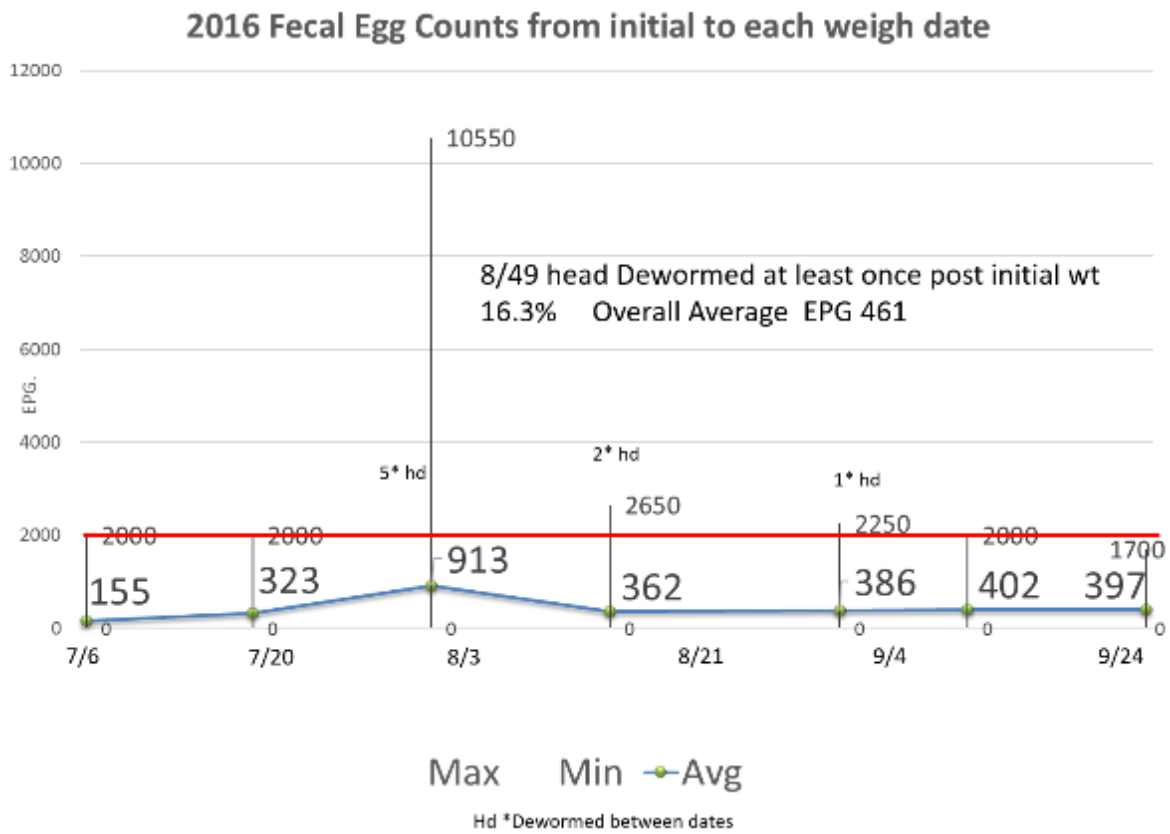


Figure 8. Example individual performance information.

Test ID: 2014

Producer Name

WA
2019

Sire	Dam	BD
Legend	Green 49	3/1/2014

In Wt	Out Wt
43	66
ADG = 0.29	
LEA cm ²	SC cm ²
14.27	24

LEA = Loin eye area
 SC = scrotal circumference

Adj LEA - Ratio		
Wt	Age	Avg
116	117	116.8

FEC	7/18	8/1	8/15	8/25	9/12	9/24	Avg
EPG	550	3500	2700	2300	2700	1550	2217
Famacha	1	2	2	4	2	1	2.0

Figure 8 shows an example of how the Individual animal results are listed. They will be in numerical order by producer which they came from as designated by their respective state silhouette with scrapie tag ids listed within the image. The first piece of information is the test id. This year we've added a top 25% trophy list showing its rank for ADG within the picture.

We took individual pictures of each animal following the last weight. Directly below the animal's picture is a table showing individual FEC's and in the example goat it shows this goat would have been dewormed 3 times and is color coded according to dewormer protocol outlined earlier. Famacha scores and average daily gain were recorded for each of the weigh dates. The average of the FEC determined the winner of the animal with the lowest eggs per gram (EPG) of those that obviously didn't get dewormed. The champion herdsman was based on 3 animals that don't get dewormed having the highest average daily gain and lowest FEC being a tie-breaker.

We try to collect other traits of interest but due to a lack of research information on these traits in goats it is to be utilized only as quantitative measures. Previous year's data included Ultra-sound imaging and was intended to be performed prior to the final weigh dates and they are expressed as loin eye area (LEA) and is reported in cm^2 . This measurement was then divided by the age of the animal and also by the final weight to create an adjusted ratio. In this example the adjusted LEA ratio for weight was 116 and 117 for age. This means this animal's adjusted LEA was 16% and 17% larger than the average of the contemporary group. An additional adjustment was calculated to take the average of these two if a person wanted to rank these animals based on this trait. This was not completed this year due to a conflict with our technician's schedule. We hope to provide this service again in the future.

This example table also shows the scrotal circumference measurement and the overall average daily gain as calculated from the average final weight - initial weight divided by the test period (84 days).

The conditions for which these animals were tested does provide an excellent site for putting selection pressure on identifying animals for parasite resistance. Below are some charts on the environmental conditions of the test.

Ultimately this information is most valuable when the data is used for genetic change and hopefully progress in economically important traits. We hope this is useful to each of the producers and we continue to wish you well.

Thanks,



Brian Freking

Southeast Area Extension Livestock Specialist

Oklahoma Cooperative Extension Service

314 S. Broadway, Suite 202

PO Box 1378

Ada OK 74820 Phone: 580-332-7011 Fax: 580-332-8716 brian.freking@okstate.edu

Chart 2. Temperature.

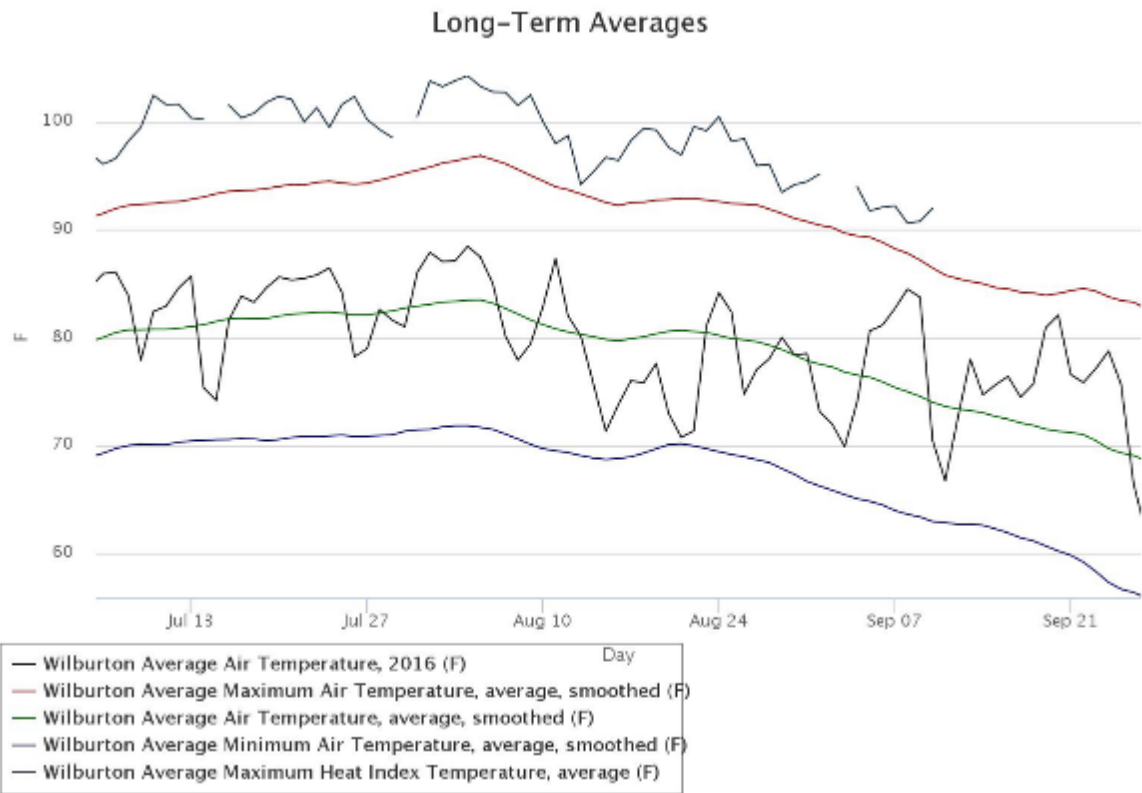
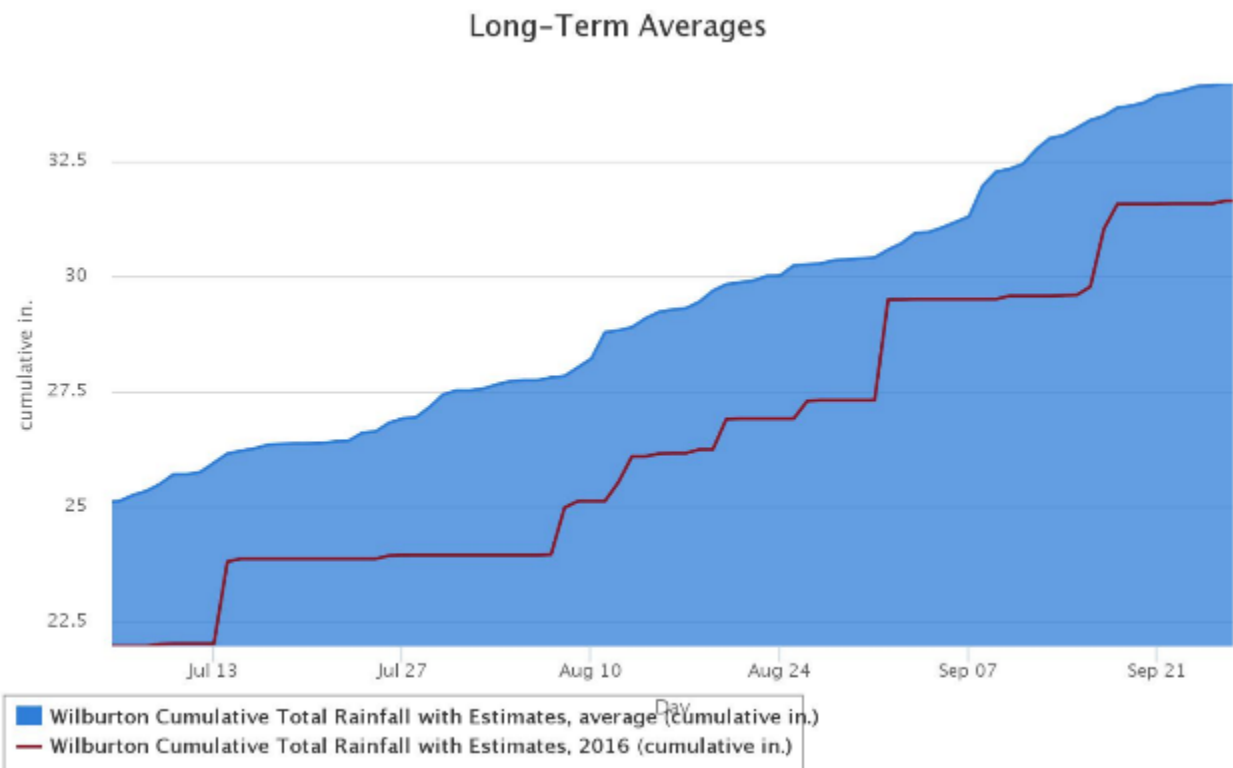
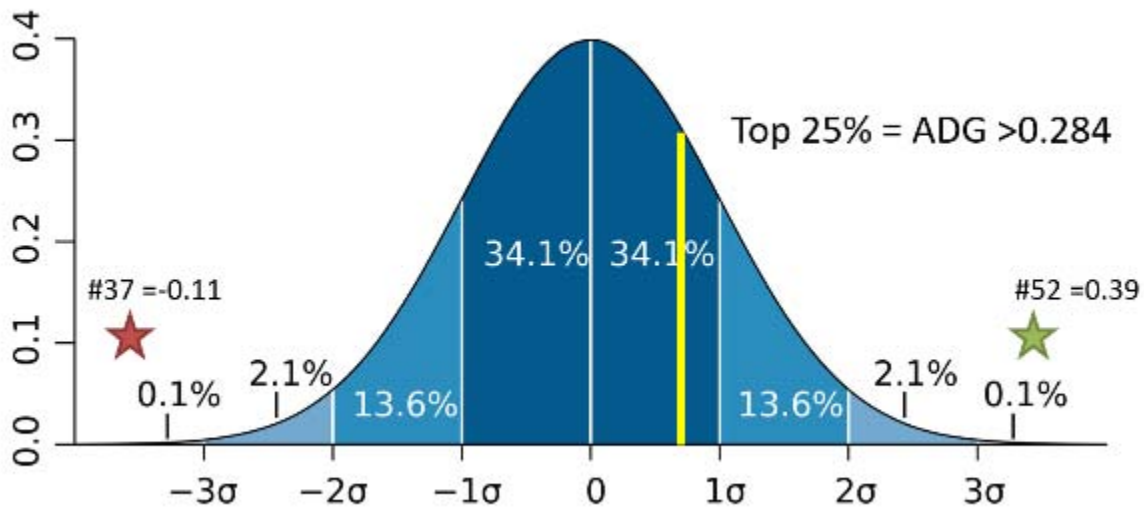


Chart 2. Rainfall.





2016 Buck Test Results



Individual Fecal Egg Counts highlighted in Green were Day 0 or Starting Counts and not calculated in the average.

Dewey and Addie

Short

Test ID: 52

**Average Daily Gain
Grand Champion**

**2016 Oklahoma Forage
Buck Performance Test**

ADG 1st

Sire	Dam	BD
LAA General Custard	SLS Shannah	2/3/16

TX
0125
EID:6752

In Wt	Out Wt
62	94.5

LEA cm ²	SC cm
	27

LEA = loin eye area
SC = scrotal circumference

	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
FEC								
EPG	0	0	100	0	150	200	400	142
Famacha	1	1	1	1	1	1	1	

Dennis and Darla

Higgins

Test ID: 42

**Average Daily Gain
Reserve Champion**

**2016 Oklahoma Forage
Buck Performance Test**

ADG 2nd

Sire	Dam	BD
Rib Chris Manna	DDH Anita Bear	1/4/16

OK 1019
EID:6742

In Wt	Out Wt
79	105.5

LEA cm ²	SC cm
	29

LEA = loin eye area
SC = scrotal circumference

	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
FEC								
EPG	0	300	100	300	150	2000	1400	708
Famacha	1	2	1	1	1	1	1	

Test ID: 53

Short



Sire	Dam	BD
MRG Thriller	SLS Sassy	2/3/16



In Wt	Out Wt
40	66
ADG =0.310	
LEA cm ²	SC cm
	25

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	50	150	0	0	50	50	50
Famacha	1	2	1	1	1	1	1	



Test ID: 71

Randy Yoder



Sire	Dam	BD
WJB Bear Willy	17	1/15/16



In Wt	Out Wt
60	85.5
ADG =0.304	
LEA cm ²	SC cm
	26

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	250	450	200	50	300	0	208
Famacha	1	2	1	1	1	1	1	



Test ID: 60

Stemme



Sire	Dam	BD
Blues Son	Z623	1/27/16



In Wt	Out Wt
55	80.5
ADG =0.304	
LEA cm ²	SC cm
	25

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	100	900	1050	450	0	1050	950	733
Famacha	2	1	1	1	1	1	2	



Test ID: 41

Higgins



Sire	Dam	BD
BWP TNT Cruze	SIG A 14C	1/4/16



In Wt	Out Wt
63	88
ADG =0.298	
LEA cm ²	SC cm
	23

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	NS	500	350	400	750	300	0	383
Famacha	2	3	2	1	1	1	1	



Test ID: 69

Randy Yoder



Sire	Dam	BD
HFK Marco	WJB 70	3/16/16



In Wt	Out Wt
43	68
ADG =0.298	
LEA cm ²	SC cm
	24

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	50	1450	900	500	500	1150	758
Famacha	2	2	1	1	1	1	1	



Test ID: 26

Byrd



Sire	Dam	BD
	LB35	1/16/16



In Wt	Out Wt
50	74.5
ADG =0.292	
LEA cm ²	SC cm
	27

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	400	150	0	950	500	450	408
Famacha	1	2	2	2	1	2	2	



Test ID: 27

Brewer



Sire	Dam	BD
Sky S407 Sports Caster	MMG 114	1/26/16



In Wt	Out Wt
45	69.5
ADG =0.292	
LEA cm ²	SC cm
	23

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	400	300	850	50	850	600	500	525
Famacha	1	1	1	2	1	1	1	



Test ID: 40

Higgins



Sire	Dam	BD
TMK A23 Commanche	SHL Z 13 Thena	1/2/16



In Wt	Out Wt
75	99
ADG =0.286	
LEA cm ²	SC cm
	27

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	0	150	100	900	650	1700	583
Famacha	1	2	1	1	1	1	1	



Dewey and Addie

Short

Top 3 hd ADG
0.325
Average Fecal Egg Count
145



Eastern **STATE**
EXTENSION

Top Herdman
Grand Champion





2016 Oklahoma Forage
Buck Performance Test

Dennis and Darla


Higgins

Top 3 hd ADG
0.299
Average Fecal Egg Count
558



Eastern **STATE**
EXTENSION

Top Herdsman
Reserve Champion



2016 Oklahoma Forage
Buck Performance Test

Dewey and Addie Short

Test ID: 53



**Low Fecal Egg Count
Grand Champion**



**2016 Oklahoma Forage
Buck Performance Test**










Sire	Dam	BD
MRG Thriller	SLS Sassy	2/3/16

In Wt	Out Wt
40	66
ADG =0.310	
LEA cm ²	SC cm
	25


LEA = loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	50	150	0	0	50	50	50
Famacha	1	2	1	1	1	1	1	1




Jim Hicks


Test ID: 39






**Reserve Champion
Low Fecal Egg Count**



**2016 Oklahoma Forage
Buck Performance Test**









Sire	Dam	BD
Sanja Chuck	JFV's 07	2/19/16

In Wt	Out Wt
67	82
ADG =0.179	
LEA cm ²	SC cm
	28

LEA = loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	0	250	50	0	100	0	67
Famacha	1	1	1	1	1	1	1	1





Test ID Order:

Test ID: 27 **Ken Brewer**

Sire	Dam	BD
Sky S407 Sports Caster	MMG 114	1/26/16



In Wt	Out Wt
45	69.5
ADG =0.292	
LEA cm ²	SC cm
	23

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	400	300	850	50	850	600	500	525
Famacha	1	1	1	2	1	1	1	



Test ID: 29 **Ken Brewer**

Sire	Dam	BD
D49	HFK Annie 501	1/4/16



In Wt	Out Wt
42	64
ADG =0.262	
LEA cm ²	SC cm
	26

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	250	1000	1500	2650	100	0	250	917
Famacha	2	2	2	3	1	1	2	



Test ID: 26

Darrell Byrd



Sire	Dam	BD
	LB35	1/16/16



In Wt	Out Wt
50	74.5
ADG =0.292	
LEA cm ²	SC cm
	27

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	400	150	0	950	500	450	408
Famacha	1	2	2	2	1	2	2	



Test ID: 28

Darrell Byrd



Sire	Dam	BD
	Y61	2/5/16



In Wt	Out Wt
38	64
ADG =0.31	
LEA cm ²	SC cm
	24

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	200	850	2250	0	0	200	100	567
Famacha	2	2	1	1	2	1	1	



Test ID: 32 Rich & Laura Davis



Sire	Dam	BD
GHK Mufasa	GHK Yoshi	2/12/16



In Wt	Out Wt
50	69
ADG =0.226	
LEA cm ²	SC cm
	22

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	50	200	300	150	250	200	500	267
Famacha	2	3	2	2	2	2	2	



Test ID: 34 Rich & Laura Davis



Sire	Dam	BD
Sky Blue's Son	GHK Venus	2/4/16



In Wt	Out Wt
58	79
ADG =0.250	
LEA cm ²	SC cm
	27

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	50	150	50	0	950	350	258
Famacha	1	2	2	2	2	1	1	



Test ID: 35

Larry Freeman



Sire	Dam	BD
ECR Katmandu	RMS Spring Rusty Girl	1/5/16



In Wt	Out Wt
57	75.5
ADG =0.220	
LEA cm ²	SC cm
	24

LEA = Loin eye area
SC = scrotal circumference

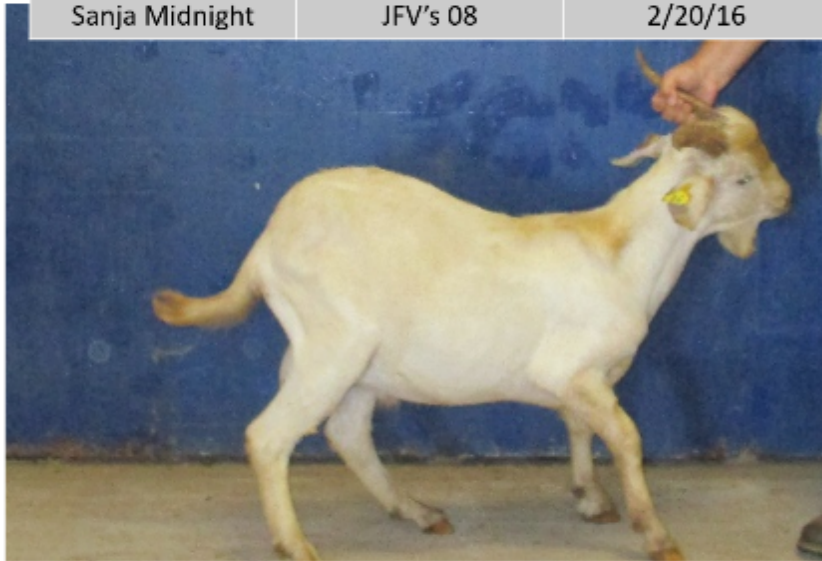
FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	850	900	4950	50	650	400	150	1183
Famacha	2	3	1	3	1	1	2	

**Test ID: 36**

Jim Hicks



Sire	Dam	BD
Sanja Midnight	JFV's 08	2/20/16



In Wt	Out Wt
77	94
ADG =0.202	
LEA cm ²	SC cm
	28

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	NS	50	450	500	350	500	400	375
Famacha	1	2	1	1	2	2	2	



Test ID: 37

Jim Hicks



Sire	Dam	BD
Valentino	BWP Speckles Girl 209	1/20/16



OK 51626

EID:6737

In Wt	Out Wt
82	73
ADG = -0.107	
LEA cm ²	SC cm
	22

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	500	100	10550	150	150	100	250	1883
Famacha	3	2	2	2	3	3	2	

**Test ID: 38**

Jim Hicks



Sire	Dam	BD
Sanja Chuck	BWP Speckles Girl 282	3/6/16



OK 51628

EID:6738

In Wt	Out Wt
73	89
ADG = 0.190	
LEA cm ²	SC cm
	28

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	50	900	100	150	200	850	375
Famacha	1	1	1	1	1	1	1	



Test ID: 39

Jim Hicks



Sire	Dam	BD
Sanja Chuck	JFV's 07	2/19/16



FEC
2nd

OK 51749
EID:6739

In Wt	Out Wt
67	82
ADG =0.179	
LEA cm ²	SC cm
	28

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	0	250	50	0	100	0	67
Famacha	1	1	1	1	1	1	1	



Test ID: 40 Dennis & Darla Higgins



Sire	Dam	BD
TMK A23 Commanche	SHL Z 13 Thena	1/2/16



OK 1017
EID:6740

In Wt	Out Wt
75	99
ADG =0.286	
LEA cm ²	SC cm
	27

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	0	150	100	900	650	1700	583
Famacha	1	2	1	1	1	1	1	



Test ID: 41 Dennis & Darla Higgins



Sire	Dam	BD
BWP TNT Cruze	SIG A 14C	1/4/16



OK 0118
EID:6741

In Wt	Out Wt
63	88
ADG =0.298	
LEA cm ²	SC cm
	23

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	NS	500	350	400	750	300	0	383
Famacha	2	3	2	1	1	1	1	



Test ID: 42 Dennis & Darla Higgins



Sire	Dam	BD
Rib Chris Manna	DDH Anita Bear	1/4/16



OK 1019
EID:6742

In Wt	Out Wt
79	105.5
ADG =0.315	
LEA cm ²	SC cm
	29

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	300	100	300	150	2000	1400	708
Famacha	1	2	1	1	1	1	1	



Test ID: 43 Dennis & Darla Higgins



Sire	Dam	BD
TMK A23 Commanche	SHL Ember	1/11/16



OK 1020
EID:6743

In Wt	Out Wt
63	84.5
ADG =0.256	
LEA cm ²	SC cm
	25

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	100	350	450	150	500	250	300
Famacha	1	1	1	1	1	1	1	



Test ID: 44 Wes & Bev Pinneo



Sire	Dam	BD
Peppy	323	2/21/16



KS 1753
EID:6744

In Wt	Out Wt
48	61.5
ADG =0.161	
LEA cm ²	SC cm
	26

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	200	1450	900	1950	200	0	550	842
Famacha	2	2	1	2	2	1	2	



Test ID: 45 **Wes & Bev Pinneo**



Sire	Dam	BD
Peppy	324	2/23/16



KS 1781
EID:6745

In Wt	Out Wt
44	57
ADG =0.155	
LEA cm ²	SC cm
	27

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	2000	1500	850	950	1500	800	400	1000
Famacha	2	1	3	3	1	2	1	



Test ID: 46 **Wes & Bev Pinneo**



Sire	Dam	BD
Peppy	342	2/23/16



KS 1787
EID:6746

In Wt	Out Wt
52	63.5
ADG =0.137	
LEA cm ²	SC cm
	24

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	350	850	3350	50	300	200	350	850
Famacha	2	3	1	2	3	2	2	



Test ID: 47 **Wes & Bev Pinneo**



Sire	Dam	BD
Peppy	365	2/20/16



KS 1791
EID:6747

In Wt	Out Wt
52	67.5
ADG =0.185	
LEA cm ²	SC cm
	25

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	0	200	200	150	150	150	142
Famacha	1	2	1	1	2	1	1	



Test ID: 48 **Shari & Don Schroeder**



Sire	Dam	BD
Sharidon's Cherokee	Sharidon's Christi	3/9/16



MO 0067
EID:6748

In Wt	Out Wt
47	68
ADG =0.250	
LEA cm ²	SC cm
	25

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	50	50	100	150	150	50	250	125
Famacha	2	2	2	1	2	1	1	



Test ID: 49 Shari & Don Schroeder



Sire	Dam	BD
Sharidon's Cherokee	Sharidon's Cerulean	3/7/16



In Wt	Out Wt
39	51.5
ADG =0.149	
LEA cm ²	SC cm
	23

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	0	50	150	150	100	0	75
Famacha	1	2	1	1	2	2	2	



Test ID: 50 Shari & Don Schroeder



Sire	Dam	BD
Xclusively Blue	Sharidon's Chloe	3/21/16



In Wt	Out Wt
50	64.5
ADG =0.173	
LEA cm ²	SC cm
	24

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	200	50	250	0	350	300	100	175
Famacha	1	3	2	2	3	2	2	



Test ID: 51 Dewey & Addie Short



Sire	Dam	BD
SLS Katmandu	SIG Fran	2/18/16



In Wt	Out Wt
59	82
ADG =0.274	
LEA cm ²	SC cm
	25

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	50	100	50	150	100	200	108
Famacha	1	2	1	1	1	1	1	



Test ID: 52 Dewey & Addie Short



Sire	Dam	BD
LAA General Custard	SLS Shannah	2/3/16



In Wt	Out Wt
62	94.5
ADG =0.387	
LEA cm ²	SC cm
	27

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	0	100	0	150	200	400	142
Famacha	1	1	1	1	1	1	1	



Test ID: 53 Dewey & Addie Short



Sire	Dam	BD
MRG Thriller	SLS Sassy	2/3/16



In Wt	Out Wt
40	66
ADG =0.310	
LEA cm ²	SC cm
	25

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	50	150	0	0	50	50	50
Famacha	1	2	1	1	1	1	1	



Test ID: 54 Dewey & Addie Short



Sire	Dam	BD
GHK High Voltage	ZNK Pretty Girl	2/3/16



In Wt	Out Wt
54	77.5
ADG =0.280	
LEA cm ²	SC cm
	25

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	50	200	300	250	200	450	242
Famacha	2	2	1	2	2	2	2	



Test ID: 56 **Kent Slavens**



Sire	Dam	BD
SLA Nitro's Max F5689	MVH C294	3/11/16



KS 0114
EID:6756

In Wt	Out Wt
43	64.5
ADG =0.256	
LEA cm ²	SC cm
	26

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	100	200	350	350	700	200	50	308
Famacha	2	2	1	1	1	1	1	



Test ID: 57

Kent Slavens



Sire	Dam	BD
LFK Outlaw's Legacy E36	BWP Tugboat's 364 Girl	3/15/16



KS 0116
EID:6757

In Wt	Out Wt
73	85
ADG =0.143	
LEA cm ²	SC cm
	27

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	250	2000	1500	1000	2250	1450	50	1375
Famacha	1	2	1	1	2	2	1	



Test ID: 58 Kent Slavens



Sire	Dam	BD
LFK Outlaw's Legacy E36	BWP 50	3/13/16



KS 0115
EID:6758

In Wt	Out Wt
47	67
ADG =0.238	
LEA cm ²	SC cm
	26

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	950	100	950	100	750	100	350	392
Famacha	2	2	3	4	2	3	2	



Test ID: 59 Kraig Stemme



Sire	Dam	BD
Raiz N Kane X Blue	113	1/27/16



TX 0149
EID:6759

In Wt	Out Wt
59	77.5
ADG =0.220	
LEA cm ²	SC cm
	24

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	100	250	300	50	100	700	1000	400
Famacha	1	1	1	1	1	1	1	



Test ID: 60 **Kraig Stemme**



Sire	Dam	BD
Blues Son	Z623	1/27/16



In Wt	Out Wt
55	80.5
ADG =0.304	
LEA cm ²	SC cm
	25

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	100	900	1050	450	0	1050	950	733
Famacha	2	1	1	1	1	1	2	



Test ID: 61 **Kraig Stemme**



Sire	Dam	BD
Blues Son	343	1/30/16



In Wt	Out Wt
58	73.5
ADG =0.185	
LEA cm ²	SC cm
	25

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	350	350	450	900	450	200	450
Famacha	2	1	2	1	2	1	1	



Test ID: 62 **Kraig Stemme**

Sire	Dam	BD
Raiz N Kane X Blue	113	1/27/16



In Wt	Out Wt
49	68
ADG =0.226	
LEA cm ²	SC cm
	26

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	50	350	100	100	0	450	175
Famacha	2	2	1	1	1	1	2	



Test ID: 63 **Stephanie Upchurch**

Sire	Dam	BD
LFK Wild Choctaw	Hat-T Ears 125	3/6/16



In Wt	Out Wt
47	64
ADG =0.202	
LEA cm ²	SC cm
	26

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	350	350	0	450	500	450	350
Famacha	3	2	3	2	2	1	2	



Test ID: 65 Phillip Wilburn

Sire	Dam	BD
Capt Nemo	Y347	3/19/16



In Wt	Out Wt
35	56
ADG =0.250	
LEA cm ²	SC cm
	23

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	0	0	50	450	850	150	250
Famacha	3	2	1	2	3	2	2	



Test ID: 66 Phillip Wilburn

Sire	Dam	BD
Capt Nemo	E395	3/7/16



In Wt	Out Wt
47	67.5
ADG =0.244	
LEA cm ²	SC cm
	23

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	0	0	0	150	300	350	133
Famacha	1	2	1	1	1	1	1	



Test ID: 67 Phillip Wilburn

Sire	Dam	BD
Capt Nemo	E380	3/10/16



In Wt	Out Wt
35	55.5
ADG =0.244	
LEA cm ²	SC cm
	22

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	100	600	0	400	600	150	308
Famacha	3	3	2	1	1	3	2	



Test ID: 68 Randy Yoder

Sire	Dam	BD
HFK Marco	TSF Nicks Mary 712	3/6/16



In Wt	Out Wt
47	62
ADG =0.179	
LEA cm ²	SC cm
	22

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	600	700	2650	0	50	0	667
Famacha	2	2	2	3	1	2	2	



Test ID: 69

Randy Yoder



Sire	Dam	BD
HFK Marco	WJB 70	3/16/16



In Wt	Out Wt
43	68
ADG =0.298	
LEA cm ²	SC cm
	24

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	50	1450	900	500	500	1150	758
Famacha	2	2	1	1	1	1	1	



Test ID: 70

Randy Yoder



Sire	Dam	BD
HFK Marco	SAF Spring Dora	3/31/16



In Wt	Out Wt
35	48.5
ADG =0.161	
LEA cm ²	SC cm
	20

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	0	0	50	200	250	50	92
Famacha	2	2	2	3	1	2	2	



Test ID: 71

Randy Yoder



Sire	Dam	BD
WJB Bear Willy	17	1/15/16



In Wt	Out Wt
60	85.5
ADG =0.304	
LEA cm ²	SC cm
	26

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	250	450	200	50	300	0	208
Famacha	1	2	1	1	1	1	1	



Test ID: 72

Timothy Yoder



Sire	Dam	BD
LFK Outlaw Renegade	SAF Spring H61	3/9/16



In Wt	Out Wt
63	84
ADG =0.250	
LEA cm ²	SC cm
	27

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	450	850	300	400	50	500	425
Famacha	1	1	1	1	1	1	1	



Test ID: 73 Timothy Yoder



Sire	Dam	BD
LFK Outlaw Renegade	HKF Little Joes Bella	3/11/16



In Wt	Out Wt
55	74.5
ADG =0.232	
LEA cm ²	SC cm
	25

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	100	50	100	200	200	200	350	183
Famacha	2	2	1	1	1	1	1	



Test ID: 74 Timothy Yoder



Sire	Dam	BD
LFK Outlaw Renegade	HKF 0006	2/18/16



In Wt	Out Wt
46	67
ADG =0.250	
LEA cm ²	SC cm
	24

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	50	0	50	0	150	NS	400	120
Famacha	2	2	1	3	1	1	2	



Test ID: 75

Timothy Yoder



Sire	Dam	BD
HKF Warrior King	HKF Girl Y210	2/1/16




In Wt	Out Wt
53	75.5
ADG =0.268	
LEA cm ²	SC cm
	25

LEA = Loin eye area
SC = scrotal circumference

FEC	7/5	7/18	8/1	8/15	9/2	9/12	9/26	Avg
EPG	0	450	750	900	1200	800	1200	883
Famacha	2	2	1	2	2	2	1	



Appendix:



OSU Meat Goat Ration Formulator

Developed By Earl H. Ward

Feed IC	Feed Name	Amount	\$/ton	% DM	% CP	TDN	% Ca	% P
148	Buck Test Forage	1746	\$60	56.3	9.7	58.6	0.6	0.2
340	Buck Test Feed	214	\$290	88.9	27.9	74.7	1.2	0.9
820	Goat Mineral	40	\$1,200	98.0	0.0	0.0	11.0	6.0
0		0	\$0					
0		0	\$0					
0		0	\$0					
0		0						
0		0						
0		0						
0		0						
0		0						
0		0						
Total Mixed Ration		2000.0	\$107	60.62	11.45	59.15	0.84	0.41

Growing Kids

Does and Wethers Drop Down Menus

			DMI, lb	CP, lb	TDN, lb	Ca, lb	P, lb
Weight, lb	66	Require	1.69	0.123	0.84	0.0035	0.0026
ADG, lb/d	0		Supplie	0.194	1.00	0.0143	0.0070
			Balance	0.071	0.17	0.0108	0.0044
			Cost per Day	\$0.09			

Bucks (Boer-type) Drop Down Menus

			DMI, lb	CP, lb	TDN, lb	Ca, lb	P, lb
Weight, lb	66	Require	1.98	0.123	0.99	0.0040	0.0029
ADG, lb/d	0		Supplie	0.227	1.17	0.0167	0.0082
			Balance	0.104	0.18	0.0127	0.0053
			Cost per Day	\$0.11			

Feeding Projection Avg 0.25 lb/d

Growth – Buck kids (lbs per day) 66 lbs								
ID	Feedstuff	As Fed	DMI (lb)	TDN (lb)	CP (lb)	Ca (lb)	P (lb)	\$/day
1	Forage	4.06	2.29	1.34	0.22	0.0087	0.0048	\$0.08
2	Buck Test Feed	0.50	0.45	0.33	0.12	0.0052	0.0038	\$0.07
3	Free Choice Mineral	0.09	0.09			0.0099	0.0054	\$0.05
Total nutrients supplied		4.65	2.74	1.67	0.34	0.023	0.014	\$0.21
Nutrients required (NRC)			2.64	1.37	0.29	0.010	0.005	
Difference			0.10	0.30	0.05	0.013	0.009	
						Ca:P	1.6	

Buck Test Feed

Ingredient	Percent	Per Ton (lb.)
Dry Distiller's Grains (DDG)	97.4	1950
Calcium Carbonate (CaCO ₃ ; lime)	1.8	36
Ammonium Chloride (NH ₄ Cl)	0.4	8
Rumensin	0.4	8

Ingredient	% DM	%TDN	%CP	%Ca	%P
DDG	91	99	31	0.09	0.66
CaCO ₃	99	-	-	38.50	0.04
NH ₄ Cl	99	-	163	0	0
Rumensin	-	-	-	-	-

Free choice Mineral



Feed Analysis

Feed ID	DM %	CP %	TDN %	Ca %	P%
Forage	56.3	9.7	58.6	0.57	0.23
Buck Test Feed	88.9	27.9	74.7	1.17	0.86
Mineral	99.0			11.0	6.0

Requirements ^(NRC) Growing Buck 66 lbs

ADG (lb/d)	DMI % BW	CP (g/d)	TDN (g/d)	Ca (g/d)	P (g/d)
0	3.01	59	450	1.8	1.3
0.05	3.28	74	490	2.5	1.7
0.22	2.99	119	600	4.2	2.3
0.33	3.38	149	680	5.6	2.9
0.44	3.77	179	750	7.0	3.5
0.55	3.15	209	830	7.9	3.7

Free choice Mineral:



Caution: Due to copper level, do not feed to sheep.

BIOZYME[®]

INCORPORATED

6010 Stockyards Expressway
 PO Box 4428 - St. Joseph, MO 64504-0428
 800-821-3070 or 816-238-3326
 Fax 816-238-7549
 support@biozymeinc.com



Recommended Feeding Directions:

Feed at the rate of 1.5 ounces per head per day.
 Additional free choice salt should be provided.

Guaranteed Analysis

Calcium (Ca) 11.0% Min .13.0% Max.
 Phosphorus (P) 6.0% Min.
 Salt (NaCl) 11.0% Min .13.0% Max.
 Magnesium (Mg) 1.7% Min.
 Potassium (K) 2.0% Min.
 Cobalt (Co) 20 ppm Min.
 Copper (Cu) 835 ppm Min.....865 ppm Max.
 Iodine (I) 50 ppm Min.
 Manganese (Mn) 650 ppm Min.
 Selenium (Se) 13.0 ppm Min.
 Zinc (Zn) 1,675 ppm Min.
 Vitamin A 300,000 IU/lb. Min.
 Vitamin D-3 35,000 IU/lb. Min.
 Vitamin E 500 IU/lb. Min.
 Vitamin B-12 15.0 mcg/lb. or 0.015 mg/lb. Min.

Ingredients

Monocalcium Phosphate, Dicalcium Phosphate, Corn Distillers Dried Grains with Solubles, Calcium Carbonate, Salt, Soybean Meal, Cottonseed Meal, Potassium Chloride, Magnesium Oxide, Dried Aspergillus oryzae Fermentation Products, Zinc Sulfate, Ferrous Sulfate, Manganese Sulfate, Calcium Iodate, Cobalt Sulfate, Sodium Selenite, Molasses Products, Fat Product (Feed Grade), Propylene Glycol, Polysorbate 60, Glycerin, Sulfuric Acid, Xanthan Gum, Natural and Artificial Flavors, Ethoxyquin (a preservative), Vitamin A Supplement, Vitamin D-3 Supplement, Vitamin E Supplement, Choline Chloride, Niacin, Calcium Pantothenate, Riboflavin, Vitamin B-12 Supplement, Thiamine Hydrochloride, Copper Sulfate.

Sizes Available

50 lb (22.7 kg) bag

Product

11310