

**V(A). Planned Program (Summary)**

**Program # 16**

**1. Name of the Planned Program**

Goat Dairy Herd Improvement (DHI) Laboratory (Langston University)

Reporting on this Program

**V(B). Program Knowledge Area(s)**

**1. Program Knowledge Areas and Percentage**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
308	Improved Animal Products (Before Harvest)		100%		100%
	<b>Total</b>		100%		100%

**V(C). Planned Program (Inputs)**

**1. Actual amount of FTE/SYs expended this Program**

Year: 2014	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	0.1	0.0	1.0
<b>Actual Paid</b>	0.0	0.5	0.0	1.3
<b>Actual Volunteer</b>	0.0	0.0	0.0	0.0

**2. Actual dollars expended in this Program (includes Carryover Funds from previous years)**

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	7877	0	22916
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	26360	0	26360
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	97418	0	163177

**V(D). Planned Program (Activity)**

**1. Brief description of the Activity**

Extension personnel will conduct goat milk quality tests in the Langston University Goat Dairy Herd Improvement Laboratory.

**2. Brief description of the target audience**

All goat producers in Oklahoma.

**3. How was eXtension used?**

eXtension was not used in this program

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

2014	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Actual</b>	300	100	650	200

**2. Number of Patent Applications Submitted (Standard Research Output)**

**Patent Applications Submitted**

Year: 2014

Actual: 0

**Patents listed**

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

2014	Extension	Research	Total
<b>Actual</b>	0	0	0

**V(F). State Defined Outputs**

**Output Target**

**Output #1**

**Output Measure**

- Number of Research Projects completed on Goat Dairy Herd Improvement (DHI) Laboratory.

Year	Actual
2014	0



**V(G). State Defined Outcomes**

**V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	Number of goat producers who learned about the Goat Dairy Herd Improvement Laboratory.
2	Number of goat producers who are using the Goat Dairy Herd Improvement Laboratory.
3	Goat producers who have increased their production profits by utilizing the Goat Dairy Herd Improvement Laboratory.

## **Outcome #1**

### **1. Outcome Measures**

Number of goat producers who learned about the Goat Dairy Herd Improvement Laboratory.

### **2. Associated Institution Types**

- 1890 Extension
- 1890 Research

### **3a. Outcome Type:**

Change in Condition Outcome Measure

### **3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2014	50

### **3c. Qualitative Outcome or Impact Statement**

#### **Issue (Who cares and Why)**

Dairy Herd Improvement Association (DHIA) has been serving cow producers for decades. However, for many years dairy goat producers had to deal with records written in cow language. This meant that they could not get accurate information in goat terms and that all the reports reflected cows, bulls and calves rather than does, bucks and kids. The records produced by our DHI lab are used to identify high producing does. These records are useful for the exportation of does to foreign countries and accurate data could enhance the resale value of does and offspring for the producers domestically as well. DHI programs are playing a significant role in increasing goat milk production and quality. Langston University operates a certified laboratory that operates under the supervision of the National Dairy Herd Improvement Association.

#### **What has been done**

During 2014, we used a program developed in cooperation with other institutions to utilize goat language for accurate data measurements and recordings. Accurate records were produced on dairy goat breeds along with correct gender identification and expected delivery dates for pregnant does. Workshops were conducted on the benefits of having DHIA records and how to collect raw data and milk samples for DHI laboratory processing. Numerous tours and demonstrations were conducted for goat producers, high school and college students.

#### **Results**

Goat producers are now able to get records for their animals that reflect accurate information with the correct language. These records not only reflect higher fat and protein values for a doe, but also are easier to understand when used for genetic evaluation and for herd management. Currently, we are serving 155 goat producers in 34 states. Information provided by the Langston

University DHI Laboratory has allowed goat producers to demand higher prices for their animals during sales. Of the 155 participating producers, information from this program may have helped them increase their profits.

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
308	Improved Animal Products (Before Harvest)

#### Outcome #2

##### 1. Outcome Measures

Number of goat producers who are using the Goat Dairy Herd Improvement Laboratory.

##### 2. Associated Institution Types

- 1890 Extension
- 1890 Research

##### 3a. Outcome Type:

Change in Knowledge Outcome Measure

##### 3b. Quantitative Outcome

Year	Actual
2014	700

##### 3c. Qualitative Outcome or Impact Statement

###### **Issue (Who cares and Why)**

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### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
308	Improved Animal Products (Before Harvest)

### **Outcome #3**

#### **1. Outcome Measures**

Goat producers who have increased their production profits by utilizing the Goat Dairy Herd Improvement Laboratory.

#### **2. Associated Institution Types**

- 1890 Extension
- 1890 Research

#### **3a. Outcome Type:**

Change in Condition Outcome Measure

#### **3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2014	50

#### **3c. Qualitative Outcome or Impact Statement**

##### **Issue (Who cares and Why)**

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**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
308	Improved Animal Products (Before Harvest)

**V(H). Planned Program (External Factors)**

**External factors which affected outcomes**

- Natural Disasters (drought, weather extremes, etc.)

**Brief Explanation**

External factors did not affect outcomes.

**V(I). Planned Program (Evaluation Studies)**

**Evaluation Results**

Goat producers are able to get accurate milk fat and protein records for their dairy goats.

**Key Items of Evaluation**

- Goat producers are able to get accurate milk fat and protein values to use in marketing their does and improving their herds.