

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

**Program # 13**

**1. Name of the Planned Program**

Demonstration Clinic: Artificial Insemination for Goats (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
301	Reproductive Performance of Animals		100%		100%
	<b>Total</b>		100%		100%

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

1. Actual amount of FTE/SYs expended this Program

Year: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.1	0.0	0.0
Actual Paid Professional	0.0	0.1	0.0	0.0
Actual Volunteer	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	3624	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	26360	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	97418	0	0

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

1. Brief description of the Activity

Hands-on artificial insemination (AI) workshops will be conducted to teach AI techniques to goat producers. These AI skills will allow goat producers to gain access to genetically superior sires for herd improvement.

**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**

2013	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	47	100	6	20

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

**Patent Applications Submitted**

Year: 2013

Actual: 0

**Patents listed**

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

**Number of Peer Reviewed Publications**

2013	Extension	Research	Total
Actual	0	4	4

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

**Output Target**

**Output #1**

**Output Measure**

- Number of Research projects completed on Demonstration Clinic: Artificial Insemination for Goats

Year	Actual
2013	0

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

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

O. No.	OUTCOME NAME
1	Number of goat producers learning about artificial insemination techniques.
2	Number of goat producers using artificial insemination techniques.
3	Goat producers who improved their herds by using artificial insemination techniques.

## **Outcome #1**

### **1. Outcome Measures**

Number of goat producers learning about artificial insemination techniques.

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

- 1890 Extension
- 1890 Research

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

Change in Action Outcome Measure

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

<b>Year</b>	<b>Actual</b>
2013	47

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

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

The use of superior sires is imperative for improving the genetic composition of breeding stock. Artificial insemination (AI) has long been used in the dairy cattle industry and is a simple technology that goat producers can acquire. However, opportunities for goat producers to acquire the necessary skills via formal and practical instruction are not widespread. Langston University has instituted a practical workshop for instruction in artificial insemination in goats. Producers are instructed in the anatomy and physiology of the female goat, estrus detection and handling and storage of semen. Producers participate in a hands-on insemination exercise. An understanding of the anatomy and physiology enable the producer to devise seasonal breeding plans and to troubleshoot problem breeders. Acquiring goat artificial insemination skills also allows producers to save money by conducting the inseminations themselves, rather than hiring an inseminator.

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

In 2013, AI workshops were held on 09/07/13 and 10/12/13 on the Langston University campus (Langston Oklahoma); and on 10/05/13 at Kansas State University. Forty seven (47) participants enrolled and received AI training.

#### **Results**

Three workshops were conducted in AI for goats. Goat producers are under-served in this area because traditional AI courses are geared toward cattle and the AI techniques differ drastically between the species. Goat producers participating in the workshops saved money by being able to conduct their own herd artificial inseminations. They can also potentially improve their herds with access to genetic material from superior sires.

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
301	Reproductive Performance of Animals

#### Outcome #2

##### 1. Outcome Measures

Number of goat producers using artificial insemination techniques.

##### 2. Associated Institution Types

- 1890 Extension
- 1890 Research

##### 3a. Outcome Type:

Change in Condition Outcome Measure

##### 3b. Quantitative Outcome

Year	Actual
2013	21

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

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

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#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
301	Reproductive Performance of Animals

#### Outcome #3

##### 1. Outcome Measures

Goat producers who improved their herds by using artificial insemination techniques.

##### 2. Associated Institution Types

- 1890 Extension
- 1890 Research

##### 3a. Outcome Type:

Change in Condition Outcome Measure

##### 3b. Quantitative Outcome

Year	Actual
2013	21

##### 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>
301	Reproductive Performance of Animals

### **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 acquiring artificial insemination skills

#### **Key Items of Evaluation**

- Goat producers saving money by performing artificial insemination on their own herds.
- Goat producers improving their herds via genetic material from superior sires.