

Meat and Dairy Goat Production and Processing

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Meat and Dairy Goat Production and Processing

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
307	Animal Management Systems	0%	0%	0%	20%
308	Improved Animal Products (Before Harvest)	0%	0%	0%	5%
311	Animal Diseases	0%	0%	0%	15%
501	New and Improved Food Processing Technologies	0%	0%	0%	5%
502	New and Improved Food Products	0%	0%	0%	5%
503	Quality Maintenance in Storing and Marketing Food Products	0%	0%	0%	10%
601	Economics of Agricultural Production and Farm Management	0%	0%	0%	5%
603	Market Economics	0%	0%	0%	5%
609	Economic Theory and Methods	0%	0%	0%	20%
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	0%	0%	0%	10%
Total		0%	0%	0%	100%

V(C). Planned Program (Inputs)

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

Year: 2007	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.8	0.0	4.0
Actual	0.0	0.0	0.0	3.8

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	0	353354
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	0	353354
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	0

V(D). Planned Program (Activity)**1. Brief description of the Activity**

This program identified the niche market of goat meat. It identified the attributes and types of goat meat products. The program tapped efficient marketing channels of goat meat supply chain and evaluated the production efficiency. Studies conducted to examined the impact of goat production on the local economy.

Studies conducted to determined the effects of preslaughter dietary treatments on oxidation rate as well as nutritional, physicochemical and organoleptic properties of chevon-based value-added products. Additionally these studies determined the effects of preslaughter diet and duration of feeding on Escherichia coli and other enteric bacterial populations in rumen and rectum, and contamination of skin and carcass in goats. Studies conducted to determined the effects of preharvest spray washing on skin and carcass bacterial counts in goats and the effects of preharvest diet, feed deprivation, and spray washing on blood hormone and metabolite concentrations. Faculty disseminated the research findings through scientific and extension meetings, as well as through publications in journals and newsletters.

As a part of this program goat milk cheeses (i.e., Cheddar and Monterey Jack type), reduced fat/cholesterol cheeses, and infant formulas were developed. Food quality parameters and nutrient availability of the dairy goat products were evaluated. Faculty shared the results of the research by disseminating findings to the target audience including the scientific community in food and agricultural sciences, extension workers, goat enthusiasts, dairy producers and consumers through training courses, seminars, workshops, goat field day, e-mail communications, etc.

2. Brief description of the target audience

The scientific community in food and agricultural sciences, extension workers, food processors, goat enthusiasts, meat goat producers, and concusmers, dairy producers and consumers.

V(E). Planned Program (Outputs)**1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	50	100	0	0
2007	0	0	0	0

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

Year **Target**

Plan: 0

2007: 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

	Extension	Research	Total
Plan			
2007	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Number of significant publications including referred journals articles, bulletins and extension publications.

Year	Target	Actual
2007	2	4

V(G). State Defined Outcomes

O No.	Outcome Name
1	Number of research experiments completed on dairy goat products development, food quality and economic evaluation.

Outcome #1

1. Outcome Measures

Not reporting on this Outcome for this Annual Report

2. Associated Institution Types

3a. Outcome Type:

3b. Quantitative Outcome

Year	Quantitative Target	Actual
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3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
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V(H). Planned Program (External Factors)

External factors which affected outcomes

Natural Disasters (drought, weather extremes, etc.)

Economy

Government Regulations

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

After Only (post program)

Evaluation Results

Key Items of Evaluation