

V(A). Planned Program (Summary)

Program # 2

1. Name of the Planned Program

Livestock Improvement Program

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	15%		15%	
302	Nutrient Utilization in Animals	10%		10%	
303	Genetic Improvement of Animals	20%		20%	
307	Animal Management Systems	20%		20%	
311	Animal Diseases	15%		15%	
312	External Parasites and Pests of Animals	5%		5%	
313	Internal Parasites in Animals	5%		5%	
314	Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals	5%		5%	
902	Administration of Projects and Programs	5%		5%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	1.5	0.0	0.5	0.0
Actual Paid Professional	0.8	0.0	0.2	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
27442	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	0	0
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

- Continous professional development training of local Paravets and other extension personnel-creation of more animal health technicians
- Continued monitoring of Animal disease survey for the CNMI
- Implement animal health program - approve by USDA
- Conduct farm training for small farmers- livestock enterprise and genetic upgrading, animal welfare, animal nutrition and husbandry management, etc
- Conduct animal health and management workshops
- Conduct mini-workshop on alternative livestock enterprise
- Promote alternative plant medicine to livestock health care Implement and promote sustainable livestock waste management
- Educate community on zoonotic diseases such as Avian Flu, Brucellosis etc
- Grant writing workshop for research funding
- Extension services including promotion, facilitation and networking in Sustainable Agriculture Programs

2. Brief description of the target audience

*Youth and adult agencies *Leaders *Ranchers/farmers *Retirees looking at new investment *Livestock producers *Entrepreneurs *Government

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	250	7000	135	250

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

Patent Applications Submitted

Year: 2012

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2012	Extension	Research	Total
Actual	1	1	2

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Number of Research projects on Animal Diseases and management, Animal genetic upgrading, Animal nutrition, and Animal science

Year	Actual
2012	1

Output #2

Output Measure

- Number of Workshops and professional development trainings for livestock program (Production, Animal Health, etc.)and sustainable agriculture program

Year	Actual
2012	8

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Numbers of clients adopted livestock best management practices as well as sustainable agriculture that resulted to creation of alternative livestock enterprise
2	Numbers of new client gained knowledge and skills about animal science, production, health and management, animal husbandry and sustainable agriculture

Outcome #1

1. Outcome Measures

Numbers of clients adopted livestock best management practices as well as sustainable agriculture that resulted to creation of alternative livestock enterprise

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	3

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

As the economy continues to dwindle, people in the CNMI are heading back to their farms to subsidize some of their income as salary increases are not being seen across much of the citizens possessing land.

What has been done

Much of our effort this past year was to assist in the development of a slaughter house on the island of Saipan. A businessman who has seen agriculture's growth from the aquaculture side as he is one of the largest shrimp producers in the nation. He believes that swine production can be a profitable business endeavor. Our efforts as a program involved the consulting of participating swine producers on Saipan in breeding, nutrition, best management practices in general).

Results

No results at this juncture of the project.

4. Associated Knowledge Areas

KA Code	Knowledge Area
301	Reproductive Performance of Animals
302	Nutrient Utilization in Animals
303	Genetic Improvement of Animals
307	Animal Management Systems
311	Animal Diseases

312	External Parasites and Pests of Animals
313	Internal Parasites in Animals
314	Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals
902	Administration of Projects and Programs

Outcome #2

1. Outcome Measures

Numbers of new client gained knowledge and skills about animal science, production, health and management, animal husbandry and sustainable agriculture

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	7

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Because of the aggressive campaign currently underway in agriculture induced primarily by one successful businessman, there is a need to provide education animal production in the CNMI.

What has been done

Program personnel have given numerous workshops on Saipan, Tinian, and Rota. Because of internal partnerships with interested extension personnel in the area of livestock, we have been able to collaborate with key animal specialist from the Virgin Islands and Hawaii. Through the "Marianas Grazing" series (Workshops focused on key elements of running a ranch operation), we have assisted more clients this past year than previous years.

Results

The impact of the "Marianas Grazing" series can be felt by the 7 new clients being served by the program consistently as word continues to spread of the many elements missing in current CNMI Ranching operations.

4. Associated Knowledge Areas

KA Code	Knowledge Area
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301	Reproductive Performance of Animals
302	Nutrient Utilization in Animals
303	Genetic Improvement of Animals
307	Animal Management Systems
311	Animal Diseases
312	External Parasites and Pests of Animals
313	Internal Parasites in Animals
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V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)
- Other (Cultural)

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

1. There continues to be a need in the development of local feed to cut the cost of production in the CNMI. The dilemma remains, "Bushel to pound comparisons of locally available carbohydrates." A bushel is much cheaper when considering for example sweet potato that the island of Rota grows in fairly large amounts. The price of sweet potatoe is equivalent to \$20 per 20lb. sack, while a stateside farmer can pay for a buschel of corn for much less.

2. There also remains a need to develop breeding centers as we continue to run genetically inferior animals when compared to areas where such desire for business operations of this magnitude exist.

3. The increase numbers of farmers/ranchers engaged in livestock business is primarily due to the hope of new infrastructure(Saipan Slaughter House and Air Cargo Business) that would close that gap in the marketing problems currently being faced.

Key Items of Evaluation