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REPORT U-415

PD-AA6-199-81 OF APPRAISAL REPORT (PAR)

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|----------------------------------|--|-----------------|-------------------|
| 1. PROJECT NO. 631-11-130-143 | 2. PAR FOR PERIOD July 1, '74 to June 30, '75 | 3. COUNTRY - | 4. PAR SERIAL NO. |
|----------------------------------|--|-----------------|-------------------|

Livestock Production in the Tropics Through Improved Animal Breeding and Science Control

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|--|------------------------------------|--|--|
| 5. PROJECT TITLE | 6. DATE LAST REVIEWED | 7. DATE OF THIS REVIEW | 8. DATE OF COMPLETION |
| 9. PROJECT OBJECTIVES | 10. CURRENT FY ESTIMATED BUDGET \$ | 11. ESTIMATED BUDGET TO COMPLETION (FY 75-76) \$ | 12. ESTIMATED BUDGET TO COMPLETION (FY 77-78) \$ |
| 13. NAME OF PARTICIPATING AGENCY OR VOLUNTEER AGENCY | | 14. CONTRACT, PASA OR VOL. AG. NO. | |

*File RPA #5
Proj # 0143*

Texas A&M University

211(d) Grant - esd-3675

This University is a member of a consortium of institutions (Iowa, Florida, and Tennessee Institute) working to improve greater stability in animal production.

15. OTHER PROJECTS MODELS AND REQUESTED AS A RESULT OF THIS EVALUATION

A. LIST OF ACTIONS

C. PROJECT ACTION COMPLETION DATE

1. Staffing

This grant is equally divided between two institutions. The Institute of Livestock Veterinary Medicine, University of Tennessee is a participant in this Grant. This portion of the grant is to:

a. improve staff capability to design and conduct efficient disease prevention and control programs for ruminant livestock production in the tropics,

Dec. 1977

June 1977

June 1977

b. develop and keep current a library of relevant information on each major exotic disease,

June 1977

c. collect pathologic specimens consisting of gross lesions, histologic slides, blood smears and pathogenic organisms,

June 1977

d. conduct research program to develop and apply improved methods for diagnosis, treatment, and prevention of each disease,

June 1977

e. develop and conduct training programs at graduate and undergraduate level.

June 1977

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|-----------------------------|------------------------|
| 16. DATE OF THIS REVIEW | 17. DATE OF COMPLETION |
| 18. REVIEWER'S NAME | 19. REVIEWER'S TITLE |
| 20. REVIEWER'S ORGANIZATION | 21. REVIEWER'S ADDRESS |

(Signature)

PROJECT APPRAISAL REPORT (CONTINUATION SHEET)
PROJECT TITLE - Livestock Production in the Tropics Through Improved
Animal Breeding and Science Control - csd-3675
w/Texas A&M University

The second portion of the Grant is to the Animal Science Department.
This portion of the Grant is to:

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|---|---|-----------|
| 3 | a. identify opportunities for significant ruminant livestock production, | June 1977 |
| 4 | b. analyze constraints to such development, | June 1977 |
| 5 | c. design programs to overcome constraints and exploit opportunities for developing the livestock industry, | June 1977 |
| 6 | d. develop and conduct training programs at graduate and undergraduate level. | June 1977 |

NARRATIVE

Texas A&M's Grant is one of four that "would explain the livestock industry from a total systems viewpoint, on the assumption that fragmented efforts in a complex problem (nutrition, economics, credit, disease control or breeding have been inadequate.)

The development of a model to simulate beef production under tropical conditions is one of the major objectives of the consortium. This responsibility was taken by Texas A&M University. After three years of development, the model is now operative. It was written in fortran and transmitted to Purdue for use with the macro-model.

The model was divided into submodels for the developing process. The submodels are: 1) composition and dynamics of the herd, 2) flow of nutrients, 3) nutrient production of forages, 4) reproduction, 5) economics.

Both Departments were active in training programs at the graduate level and in conducting workshops in Columbia and at Texas A&M.

The Institute of Tropical Veterinary Medicine has the largest and best collection of pathologic specimens of exotic animal diseases in the U.S. These specimens and other related information concerning exotic animal disease is providing Texas A&M a capability to serve LDC and U.S. universities with essential information concerning animal disease.

PROJECT APPRAISAL REPORT (CONTINUATION SHEET)

PROJECT TITLE - Livestock Production in the Tropics Through Improved
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The Animal Science Department has participated in a large number of seminars, workshops on beef production systems in the tropics. They participated in a study of sheep and goat production in Botswana and Swaziland. The small ruminant is an area that AID would like to see greater emphasis given to develop a capability in the U.S. for design and management of projects for small ruminants in the LDCs.

Performance by the staff involved in this grant and apparent interest and support of University officials in the Grant has been excellent.

2. Development of Institutional Capability

- a. involve members of faculty in grant supported activities,
- b. foreign graduate student training,
- c. library/informational systems relevant to tropical livestock, breeding and disease control systems.

Technical Competencies and Training

Texas A&M staff associated with this Grant are developing information and acquiring experience in animal production and disease problems that are prevalent in the LDCs. The capability they are developing will provide LDCs a technical resource base that may be used to increase livestock production and control animal diseases that cause high death losses and low reproduction rates.

General Management/Other Problems

There are no management problems concerning this Grant. Texas A&M staff associated with this Grant are responsive to meeting AID requirements relating to 211(d) grants.