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ACTION MEMORANDUM

25 APR 78

TO : DS/PPU, Robert Simpson

FROM : DS/AGR, Leon F. Hesser *lhd.*

SUBJECT: Preparation of a Report on Goat Nutrition by the National Academy of Science (NAS) and National Research Council (NRC) Committee on Animal Nutrition

PROBLEM: There are many deficiencies in the published literature as related to the present state of knowledge of nutrition of goats in both temperate and tropical climate areas. These include information on nutritional disorders, nutrient requirements, feed utilization, nutrient composition of feedstuffs and ration formulation. These information gaps contribute to inefficient feeding systems and low animal productivity.

PURPOSE OF STUDY: The purpose of this study is for the NAS/NRC Subcommittee on Goat Nutrition to prepare a report on goat nutrition that would have worldwide applicability in the development of efficient feeding systems for goats.

This report would include integrated information on nutrition and metabolic disorders; nutrient requirements for energy, protein, minerals, vitamins and water; specific requirements of dairy goats; specific requirements of meat goats; specific requirements of Angora and Cashmere goats; other aspects of goat nutrition; factors affecting the utilization of forage by goats; formulation of diets for goats; nutrient composition of feeds used by goats.

DISCUSSION: There are an estimated 400,000,000 goats in the world, of which 78% are found in developing countries, with the majority located on small farms. Unfortunately very limited attention has been given to understanding the current and future role of goats in the agriculture of developing countries, their contribution to human nutrition, income and employment, nor to the improvement of goat production systems. Unfortunately, abuses in the utilization of goats has

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precipitated either extermination or no-action programs where in fact emphasis should have been placed on the improvement of goat production systems, ie programs to increase animal efficiency commensurate with proper use of rangeland and other feed resources.

The Joint Research Committee (JRC) of the Board for International Food and Agricultural Development (BIFAD) has selected small ruminants (sheep and goats) as a priority area for research because of the potential for using these species to improve the nutritional and economic status of very poor people in the developing countries. A recommended Collaborative Research Support Program (CRSP) is now being developed, and it is contemplated that a small ruminants CRSP is now being developed, and will be initiated in FY 79.

PROPOSAL: The NAS/NRC Committee on Animal Nutrition has submitted an unsolicited proposal (attached) for partial funding in the amount of \$8,500 as related to the preparation of a report on goat nutrition as outlined in "Purpose of Study". Total cost of the preparation of this report is estimated to be \$35,000. Principal funding is provided by the Agricultural Research Service of the United States Department of Agriculture and the Food and Drug Administration. AID would provide partial funding commensurate with the relative usefulness of the report in developing countries. AID funding would be provided through DS/AGR Small Activities, Special Projects - Inputs.

This report would contain information that would be directly supportive of the contemplated Title XII CRSP on small ruminants and other USAID projects, eg Small Ruminants in Mali.

This activity would be completed on/or about December 31, 1978. One hundred copies of the report would be delivered to USAID for distribution to field missions and selected institutions involved in goat production research programs.

RECOMMENDATION: It is recommended that AID partial support (\$8,500) for this activity be approved.

APPROVED:

RSunja

DISAPPROVED:

DATE:

4/28/78

Attachement: a/s

NATIONAL ACADEMY OF SCIENCES/NATIONAL RESEARCH COUNCIL

COMMISSION ON NATURAL RESOURCES

BOARD ON AGRICULTURE AND RENEWABLE RESOURCES

COMMITTEE ON ANIMAL NUTRITION

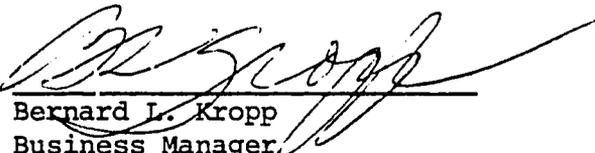
Proposal for

Support of the CAN Subcommittee on
Goat Nutrition

This proposal is submitted by the National Academy of Sciences which assumes full technical and financial responsibility under its Act of Incorporation for the work to be carried out under any contract resulting from this proposal.

Contract Administration

Program Administration


Bernard L. Kropp
Business Manager
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October 12, 1977

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NATIONAL ACADEMY OF SCIENCES/NATIONAL RESEARCH COUNCIL

COMMISSION ON NATURAL RESOURCES
BOARD ON AGRICULTURE AND RENEWABLE RESOURCES

COMMITTEE ON ANIMAL NUTRITION

Proposal for

Support of the CAN Subcommittee on Goat Nutrition
(November 1, 1977 - December 31, 1978)

SUMMARY:

The National Academy of Sciences, through its Board on Agriculture and Renewable Resources of the Commission on Natural Resources, proposes to continue the work of the Subcommittee on Goat Nutrition of the Committee on Animal Nutrition. The major portion of the Subcommittee's work is supported by the Agricultural Research Service of the U.S. Department of Agriculture and the Food and Drug Administration of the U.S. Department of Health, Education, and Welfare. This proposal requests \$8,500 in partial support of the CAN Subcommittee on Goat Nutrition.

BACKGROUND:

The Committee on Animal Nutrition has recognized that very limited attention has been given to the nutrient requirements of the goat, as a milk, food and fiber producing animal. A Subcommittee on Goat Nutrition has been appointed to study this problem, and a report has been planned to cover the following areas:

- Nutrition and Metabolic Disorders
- Nutrient Requirements - Energy, Protein, Minerals, Vitamins, Water
- Specific Requirements of Dairy Goats
- Specific Requirements of Meat Goats
- Specific Requirements of Angora and Cashmere Goats
- Other Aspects of Goat Nutrition
- Factors Affecting the Utilization of Forage by Goats
- Formulation of Diets for Goats - Six typical formulations for dairy goats in temperate areas, three typical formulations for dairy goats and three for meat goats in tropical areas
- Composition of Feeds Used by Goats (Major effort will be made to include composition of feeds used in the tropics)

Because of the increasing importance of goats throughout the world, attention will be given to nutrition of goats in tropical as well as temperate areas.

PLAN OF ACTION:

Three members of the Subcommittee have been concentrating on the requirements in the tropics and are preparing tables of feed composition for the tropical regions. An intensive review of research literature will be made and a meeting will be held of those involved in this area to bring this material together and prepare the tables.

Following completion of work assignments, the total Subcommittee plans to meet in the United States in order to review and coordinate its report.

REQUEST FOR FUNDING:

The attached estimate of costs in the amount of \$8,500 is for partial support of the CAN Subcommittee on Goat Nutrition.

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CAN Subcommittee on Goat Nutrition

Estimate of Costs

1. <u>Personal Services*</u>		
Professional	\$ 684	
Secretarial-clerical	<u>263</u>	\$ 947
2. <u>Staff Benefits</u>		123
3. <u>Travel Expenses</u>		
Domestic	\$1000	
Foreign	<u>2500</u>	3,500
4. <u>Communications and Shipping</u>		202
5. <u>Materials and Services</u>		1,300
6. <u>Indirect Costs</u>		<u>2,428</u>
	Total	<u>\$8,500**</u>

*Includes accrual for annual and sick leave, holidays and other leave such as for jury duty, military service and special personal leave.

**It is understood that the contract will provide for advance payments.