

9311307-③  
PD-A46-247-D1

9311307004902  
(attached to Action Memo)  
APR 26 1978

ACTION MEMORANDUM FOR THE ASSISTANT ADMINISTRATOR OF THE  
DEVELOPMENT SUPPORT BUREAU

FROM : DS/AGR, Leon F. Hesser *by D. Pittman*  
SUBJECT: CRSP: Small Ruminants; Planning IQC Work  
Order Amendment/Extension  
REFS: (a) Action Memorandum dated August 24, 1977  
with attachments; and  
(b) IQC Contract AID/afr-c-1144, Work Order  
No. 08, as amended.

Problem: The Board for International Food and Agricultural  
Development (BIFAD) its Joint Research Committee (JRC)  
and DS/AGR/Livestock have determined that the current Work  
Order (ref B) with the Research Triangle Institute (RTI)  
-which expires April 30, 1978-should be amended. Your  
approval is necessary to permit this amendment which is  
to (1) expand the scope of work, (2) extend the period of  
services, and (3) add additional funding.

Discussion: The current Work Order was authorized by the  
August 24, 1977 Action Memorandum (ref A); the purpose  
was for RTI to develop a general program plan for the CRSP  
on Small Ruminants. RTI is now completing that work.

AID now requires a detailed program plan from which to  
prepare the project paper. The JRC, BIFAD, and DS/AGR/  
Livestock Production Division recommend that the services  
of RTI be retained for an additional two months through  
June 30, 1978 for preparation of just such a detailed  
program plan because (1) RTI has already completed some  
of the work which is essential to the detailed plan (e.g.  
identification of participant institutions and investigators)  
in its process of preparing the general program; (2) RTI's  
on-going preparations of the general plan also serve  
its refinement and modification into the detailed  
plan; and (3) The expertise which RTI has already on  
board under the current Work Order is precisely the expertise  
required for the detailed plan and the accompanying co-

ordination of the efforts of the participating universities in its development.

Extension of the current Work Order would, for these reasons, greatly expedite the timely completion of the detailed planning task permitting JRC, BIFAD, and AID to accelerate progress toward the implementation phases of the CRSP on Small Ruminants. The proposed expanded Scope of Work and two-month extension are estimated by RTI to require \$33,799 additional AID funding for a revised Work Order Budget total of \$152,681.

These above points in greater detail, the expanded Scope of Work, and the revised work schedule are presented in Attachment A, Rationale and Scope of Work for the Proposed Amendment/Extension. The revised budget is presented in Attachment B, Revised Work Order Budget and Estimated Level of Effort.

Recommendation: That you approve the proposed Amendment/Extension of the current Work Order with RTI to (1) expand the Scope of Work to include preparation of the detailed plan; (2) extend the period of services through June 30, 1978; and (3) provide additional AID funding not to exceed \$33,800.

APPROVED:

RC Simpson

DISAPPROVED:

DATE:

4/27/78

Attachment A: Rationale and Scope of Work

Attachment B: Revised Budget and Estimated Level of Effort

Rationale and Scope of Work

for the  
Proposed Amendment and Extension of the Work Order with the  
Research Triangle Institute (RTI)

April 24, 1978

I. Status of Current Contract

The Agency for International Development has a work order under IQC contract AID/Afr-c-114 with the Research Triangle Institute (RTI) for the purpose of developing a general program plan for a Collaborative Research Support Program (CRSP) on small ruminants. RTI, with the assistance of an eminent group of staff consultants and a peer evaluation panel, has developed a recommended general program plan for this CRSP and a recommended structure for the management entity.

Also RTI has identified institutions and principal investigators that would participate in the preparation of a detailed program plan. This detailed program plan would provide the basic information from which AID could prepare an actionable program paper. Institutions and principal investigators were identified on the basis of proposals that were submitted to RTI and the relevance of these proposals to the general program plan developed by RTI.

II. Rationale and Scope of Work

When the current work order was consummated with RTI it could not be anticipated how a detailed program plan could best be developed. After extensive discussion involving the Board for International Food and Agricultural Development (BIFAD), its Joint Research Committee (JRC), and the office of Agriculture, Development Support Bureau (DS/AGR), it has been determined that RTI should now function as the facilitator, working with identified principal investigators and institutions in the development of a detailed program

plan and in providing assistance to the identified institutions in the establishment of a management entity. It is thought that this method would maximize the utilization of planning efforts realized to date by RTI, would minimize duplication of effort in developing a detailed program plan, would permit RTI to directly coordinate the efforts of the participating universities in the development of a program plan, and would facilitate the establishment of a management entity.

RTI, having identified 12 core institutions (on the basis of essential elements of their project plans that fitted appropriately into the idealized general program plan) out of 23 institutions expressing interest in the program, will work with these core institutions to refine the general program plan into a detailed program plan. RTI will have the responsibility, as the general program plan is modified in its further development, to insure that the resources of another 11 non-core institutions are considered for possible core participation in consequence of any program modifications. RTI will also consider other appropriate changes in institutional participation.

The detailed program plan will generally conform to established AID requirements for project papers for research grants. It will include program objectives; the projects to be included in this program; the institutions that will carry out the projects; specific tasks in each project that designated institutions will perform; the objectives, research plan and products of the projects; the specific investigators and the time that each will devote to the project; a budget that delineates institutional input and CRSP funds. Developing country input should be estimated in so far as possible.

The detailed program plan will be in sufficient detail to provide the basic information required for AID to prepare an actionable program paper, which will be used for grant negotiations between AID and the administrative entity. The expected overseas work sites will be illustratively identified with which each U.S. participating institution will be associated. In addition, this detailed program plan will specify the management entity which is expected to negotiate the final grant with AID. All core U.S. institutions having participated in the development of the detailed program plan under the coordinating leadership of RTI will have final approval regarding their participation before the detailed plan document is submitted for AID consideration.

III. The procedures and work schedule are as follows:

A. April 24: Advise all universities that have submitted proposals that essential elements of project plans as submitted by 12 institutions have been identified as appropriate for consideration in an idealized general program plan.

B. May 3-5: Meet with the principal investigators of the identified project plans/institutions to obtain agreement on:

- (1) Essential elements of a detailed program plan;
- (2) Geographical and ecological zone work sites overseas;
- (3) U.S. university input/cost sharing;
- (4) Time commitments of principal and co-investigators; and
- (5) Structure of a management entity.

C. May 8-19:

- (1) Principal and co-investigators prepare detailed project plans, which are submitted to RTI; and
- (2) RTI assists in the development of a management entity.

D. May 22-26: Project plans are reviewed by RTI and the proposed Management Entity, and are then returned to principal investigators for project plan revisions.

E. May 29-June 2: Principal investigators and the proposed Management Entity meet at RTI and make proposed changes, and complete detailed program plan.

F. June 5-9: RTI and the proposed Management Entity assemble the project plans into a detailed program plan.

G. June 12: RTI submits its final report including the detailed program plan to AID

ATTACHMENT B

Revised Work Order Budget and Estimated Level of Effort  
(Work Order No. 8, IQC Contract AID/Afr-C-1144)

<u>I. Personnel</u>	<u>Fixed Daily</u> <u>Rate</u>	<u>Estimated</u> <u>Days</u>	<u>Total</u>
Agricultural Econ. Spec. (Mulligan)	\$290	90	\$26,100
Rural Reg. Admin. Spec. (David)	360	16.5	5,940
Rural Infra. Dev. Spec. (McCullough)	258	73	18,834
Administrator (Zivetz)	135	89	12,015
Administrator (Linn)	90	30	2,700
Administrator (Kerr)	110	25	2,750
<u>Consultants</u>			
Ag. Research Spec. (Byerly)	255	41	10,455
Livestock Spec. (Stonaker)	255	29	7,395
Range Mgmt. Spec. (Devendra)	212.5	29	6,162
Animal Health Spec. (Preston)	255	30	7,650
Review Committee Advisors	255	58	<u>14,790</u>
TOTAL			\$114,791
<u>II. Travel and Transportation</u>			\$28,330
<u>III. Other Direct Costs</u>			
Shipping & Communication	1620		
Report Preparation	2380		
Report Reproduction	5560		
TOTAL			\$9,560

Total Estimated Cost \$152,681



DEPARTMENT OF STATE  
AGENCY FOR  
INTERNATIONAL DEVELOPMENT

1. Cooperating Country  
DS Bureau

PIO/T

PROJECT IMPLEMENTATION  
ORDER/TECHNICAL  
SERVICES

2. PIO/T No.  
931-1307-3188259

3.  Original or  
Amendment No. \_\_\_\_\_

4. Project/Activity No. and Title 931-1307  
Planning Collaborative Research Support  
Program for Small Ruminants under  
Title XII (IOC-AFR-c-1144)

DISTRIBUTION

5. Appropriation Symbol  
72-1181021-3

6.A. Allotment Symbol and Charge  
843-36-099-00-20-81

6.B. Funds Allotted to:  
 A.I.D./W  Mission

7. Obligation Status  
 Administrative Reservation  Implementing Document

8. Funding Period (Mo., Day, Yr.)  
From 15 SEP 77 to 30 JUNE 78

9.A. Services to Start (Mo., Day, Yr.)  
Between continuing and \_\_\_\_\_

9.B. Completion date of Services  
(Mo., Day, Yr.)  
30 JUNE 78

10.A. Type of Action  
 A.I.D. Contract  Cooperating  
Country Contract  Participating Agency  
Service Agreement  Other

10.B. Authorized Agent  
AID/Washington

Estimated Financing		(1)	(2)	(3)	(4)
		Previous Total	Increase	Decrease	Total to Date
\$1.00=					
11. Maximum A.I.D. Financing	A. Dollars		33,800		33,800
	B. U.S.-Owned Local Currency				
12. Cooperating Country Contributions	A. Counterpart				
	B. Other				

FUNDS RESERVED BY  
*JMM*  
4-27-78  
SER/TA/CSD

13. Mission References  
Mission Memo  
dated 26  
April 1978

14. Instructions to Authorized Agent  
This PIO/T authorizes SER/CM/COD to amend Work Order No. 8, as amended, with the Research Triangle Institute (RTI) under IOC/afr-c-1144 to (a) expand the Scope of Work as outlined in Attachment A; (b) extend the period of services through 30 JUNE 78 and (c) add additional funding in accordance with the revised budget requirements set forth in Attachment B. All other provisions of the Work Order, as amended, remain unchanged.  
Attachment A: Rationale and Scope of Work for the proposed Amendment/Extension of Work Order 8, IOC/afr-c-1144.  
Attachment B: Estimated Budget for the Proposed Amendment/Extension of Work Order 8, IOC/afr-c-1144. (see attached)

5. Clearances - Show Office Symbol, Signature and Date for all Necessary Clearances.

A. The specifications in the scope of work are technically adequate  
DS/AGR, L.NSRaum *LR* date 27 APR 78

B. Funds for the services requested are available  
DS/PO, CKassbaum *ck* date 4/27/78

The scope of work lies within the purview of the initiating and approved Agency Programs  
DS/AGR, LEHesser *MEM* date 4/27/78

D.  
DS/PO, JMRyan *JMM* date 4/27/78

DS/XII, ELong (Draft) date  
DS/AGR, MMozyński *MEM* date 4/27/78

F.  
DS/AGR, CSMcCluskey *CCM* date 27 APR 78

16. For the cooperating country: The terms and conditions set forth herein are hereby agreed to

17. For the Agency for International Development

18. Date of Signature

Signature and date:

Signature: Kenneth Milow

4/27/78

Title:

Title: Chief, DS/PO/PPA

CONTINUATION SHEET

DEPARTMENT OF STATE  
AGENCY FOR  
INTERNATIONAL DEVELOPMENT

Worksheet  Invoice

PAGE 2 OF 2 PAGES

FORM SYMBOL

PIO/T

TITLE OF FORM

Project Implementation  
Order/Technical Service

1. Cooperating County

DSBureau

2.a. Code No.

2.b. Effective Date

2.c.

Original OR  Amendment No.

3. Project/Activity No. and Title 931-1307

Planning Collaborative Research  
Support Program for Small Ruminants  
under Title XII (IOC-afr-c-1144)

Indicate block numbers.

Use this form to complete the information required in any block of a PIO or PA, PR form.

14.

VOUCHERS: Each voucher (SF 1034) submission should include:

Work Order No. 8, IOC-afr-c-1144  
Project: 931-1307.11  
DS/AGR/Livestock Production Division  
Dr. Ned S. Raun

ATTACHMENT A

Rationale and Scope of Work

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April 24, 1973

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August 24, 1977

ACTION MEMORANDUM FOR THE ASSISTANT ADMINISTRATOR, TECHNICAL ASSISTANCE BUREAU

FROM: TA/AGR, Leon F. Hesser *LH*

SUBJECT: Approval of Fund Allocation for Planning Contract, Collaborative Research Support Program, Small Ruminants

Problem: The Board for International Food and Agricultural Development (BIFAD) and its Joint Research Committee (JRC) have approved procedures for planning Collaborative Research Support Program proposals, and for selecting the recipients of grants to carry out such programs. These procedures require that a grantee or contractor be selected to conduct the planning process and to recommend the recipients of the Collaborative Research Grants. A.I.D. is ready to proceed with the selection of a contractor to conduct these operations for a selected research topic, namely, small ruminants. Your approval is necessary before the contract can be awarded.

Discussion: Since this will be one of the first planning contracts for collaborative research, it will help set precedents and determine procedures to be followed for the planning process in developing these collaborative programs. The planning process will require several work-months for literature review, research evaluation, identification and screening of possible participants, developing recommendations for selection of most appropriate participants, and presentation of a report and recommendations to BIFAD/JRC and A.I.D. The preliminary cost estimate of these activities is \$120,000 and the time required is estimated to be six months. The product of this planning process will be a report to A.I.D., BIFAD and the JRC which will:

1. outline the structure and scope of a proposed Collaborative Research Support Program (CRSP) in small ruminants;
2. make recommendations as to the initial participants in the CRSP, and the general research topics to be covered by each, this will include both the U.S. and developing country participants;
3. make a recommendation relative to the most suitable administrative entity to receive and administer the CRSP grant.

We recommend that the planning contract be awarded to the Research Triangle Institute (RTI), under an existing Indefinite Quantity Contract (IQC).

RTI has considerable experience in overseas development work but does not expect to participate in a collaborative program on small ruminants.

A scope of work for the planning process (attached) has been prepared based upon an earlier BIFAD/JRC approved scope of work for the Sorghum/Millet Project.

A PIO/T has been prepared, based on this scope of work. The Contracts Office is prepared to initiate procurement procedures as soon as an approved PIO/T, indicating funds reservation, is forwarded to them.

Recommendation: That you approve the procedures outlined, the selection of RTI as contractor, and the allocation of not more than \$120,000 for this proposed contract.

APPROVED: *Cent. Farmer*

DISAPPROVED: *Aug 25, 1977*

DATE: *↓*

Attachment: Scope of Work

Clearance: TA/PPU:RSimpson *[Signature]* Date *8/17*

Drafted: TA/AGR/LV:BTWhittle:ya:8/17/77  
x51275

# Planning Collaborative Research Support Program

on

## Small Ruminants

### Under Title XII

Of the International Development and Food Assistance Act of 1975

#### 1. Introduction

##### A. History

With the approval of the International Development and Food Assistance Act of 1975, the Congress authorized the creation of a Board for International Food and Agricultural Development (BIFAD). The Board of seven members was appointed and will guide the use of a new category of agricultural research funds intended to improve food production and utilization throughout the world, but with particular importance to the developing countries.

In essence, the new programs are intended to link and support agricultural research institutions which share a common research interest in problems of major food production in the developing world. The terminology of the bill is broad but is generally interpreted to promote collaboration among U.S. land grant universities, research institutions in developing countries, and the International Research Centers. The language does not, however, preclude participation by institutions in other developed countries, nor private agencies.

The members of the BIFAD were appointed in 1976. A Joint Research Committee has been appointed by the Board and is developing a priority listing of programs. One of the priority areas identified is small ruminants (sheep and goats).

##### B. Rationale for a Small Ruminant Program

There are approximately 1,400,000,000 sheep and goats in the world, and it is estimated that approximately 800,000,000 are located in developing countries. These small ruminants are principally located on small farms of less than 20 hectares (92% of total small ruminants in Asia and 59% in Latin America), and with the bulk of the total population in Africa held by small pastoralists in tribal groups plus approximately 8% held on small farms of less than 20 hectares. These small ruminants provide meat, milk and fiber/hides for home consumption and for sale. The meat and milk are especially important as protein supplements to correct the protein deficiencies of plant products in the diet, both for home consumption and in urban areas.

Efficient utilization is made of the farm labor force in caring for small ruminants, with women and children often assuming major responsibility.

Therefore both rural and urban poor derive major benefits from small ruminants, i.e. high quality protein, fiber and hides for clothing, and efficient use of family labor in small ruminant production, and multiple types of employment in the transportation, processing and marketing of small ruminant products. In addition small ruminants, along with other ruminants, offer the only rational approach in the transformation of pastures, forages and other roughage feeds that have no value for human consumption/use into high protein foods and other valuable animal products.

However, small ruminants have often been either inadequately or improperly exploited. For example they have been little used in humid tropical areas where they have great potential. There are extensive areas of existing or potential rangelands in the humid tropics that are not suitable for cultivation, that are underutilized, that are suitable for goats and tropical breeds of sheep, and that have potential for large increases in the production of animal products.

On the other hand, in some arid areas overstocking and/or improper management have resulted in serious deterioration of rangelands. Also in these instances feed intake has often been inadequate, animals either barely exist or succumb to direct and indirect effects of starvation, and net production of animal products has been very low. However, even in these situations production can often be increased through a combination of improved pasture/feed/animal management and adjustment of the animal population to match feed resources, consistent with the conservation of range and pasture lands.

It is therefore proposed that institutions here and abroad who are already concerned with research on small ruminants be invited to join a single collaborative program for the improvement of small ruminant production systems in situations where these species are of major importance, and where opportunities exist for the significant improvement and/or expansion of small ruminant production. This involves the efficient utilization of available pasture, feed and family labor resources for the production of meat, milk and/or fiber that will contribute to the well being of both rural and urban population. This program would focus on small farm crop/livestock systems, and communal/tribal grazing systems.

As part of the planning function, agricultural experts from the U.S., the international scene, and the developing countries will be asked to assess the needs for research on small ruminants in the developing countries.

## 2. Executing a Planning Grant

IFAD and the Agency for International Development (A.I.D.), under

provisions of Title XII, Section 298(d) of the International Development and Food Assistance Act of 1975 and in accordance with recommendations made by the Joint Research Committee (JRC), have considered small ruminants for a Collaborative Research Support Program (CRSP). It is now in order for A.I.D. to contract with a qualified organization to plan and submit a Collaborative Research Support Program Proposal. The outline presented in this document, together with the guidelines approved by BIFAD, will be followed by the contractor selected by A.I.D., on recommendation of BIFAD, to prepare and submit the proposal. Selection of the contractor will be made on the basis of high research qualifications on commodities closely related to small ruminants but not necessarily with a primary interest in these commodities.

3. Developing a Proposed CRSP for Small Ruminants

A. Maintaining liaison with A.I.D., BIFAD and JRC

Throughout the term of this work order, the contractor will maintain close liaison with A.I.D., BIFAD and JRC. To this end, appropriate representatives of A.I.D., the BIFAD staff and a member of JRC will be designated by A.I.D. as points of contact. The principal purpose of this close liaison will be to help the contractor develop an acceptable plan.

B. The Ad Hoc Planning Committee

Within 15 days after contract effective date, contractor will establish an Ad Hoc Planning Committee (3-8 members) to assist in developing detailed procedural plans to be followed during the remainder of the assignment. The contractor may include in the membership of the committee persons from other institutions. It is important that LDC experience be represented, as well as the USDA's Agricultural Research Service, if possible. The representatives of A.I.D., BIFAD staff and JRC should be present during the Committee's deliberations. Upon completion of its assignment in helping to develop procedural plans, the committee will be discharged.

C. State of the Arts Report

The contractor will prepare a state of the arts report on the status of small ruminant production and the utilization of meat, milk and fiber/hides produced by small ruminants, and an inventory of research underway in developed and developing countries where small ruminants are of major importance.

Data will be compiled on livestock numbers; livestock products; production trends over as recent a five year period as possible; contribution of small ruminants to gross domestic product; distribution of small ruminants by farm size; utilization of the farm labor force in small ruminant production; consumption/utilization patterns of meat, milk and fiber/hides from small ruminants; land/pasture utilization by small ruminants; and possibly other data.

Attention will be given to an analysis of how meat and milk from small ruminants improves the nutrition of the rural and urban populations. Increased employment opportunities as a result of more efficient and expanded production where appropriate should also be evaluated.

Countries with sizeable Moslem populations will be indicated to show the magnitude of demand for small ruminants for religious purposes.

The contractor will identify institutions in developing and developed countries with a manifest interest in research on sheep and goats. Such a list can be prepared with information collected through the information banks of the United States Department of Agriculture (USDA) and the FAO, as well as the USDA/CSRS, USAID

Missions, IA/AGR staff, the International Agricultural Research Centers, and others. AID/W shall assist by providing limited liaison services with these entities.

The contractor will develop an inventory of research underway, both in the United States and, to the fullest extent possible, in the rest of the world. To be useful, the inventory will have to be brief, i.e., in an abstracted form. The format followed by CRIS (the USDA's information bank) is recommended to the contractor in preparing this section of the report.

The State-of-the-Art Study on Sheep and Goat Production now being completed by Winrock International Livestock Research and Training Center will provide a significant portion of the information required.

D. Summarizing Problems and Research Needs

Invitations for identification of problems and suggestions for research will be extended to all institutions having substantial interest in small ruminants, including those in developed countries, developing countries, and the international centers. Within the United States the contractor will contact and invite suggestions from universities which have been designated "eligible" by BIFAD; all "non-eligible" U.S. universities which are known to have a manifest interest in small ruminant research; the Agricultural Research Service, Cooperative State Research Service, and Economic Research Service of the USDA; research foundations; private organizations with ongoing programs on small ruminant research with international implications; as well as individuals with such demonstrable research interests.

The contractor will identify the potentials and constraints (land and feed resource utilization and conservation; utilization of rural labor force; production, marketing, transportation, processing and utilization of meat, milk and fiber/hides from small ruminants) for small ruminant production systems in developing countries under grazing conditions and in crop/livestock systems. The contractor will then prepare a summary of the most urgent research needs for small ruminants in the developing countries and will include an estimate of the costs and potential benefits to be derived from the various individual research projects comprising the list. The report encompassing this summary must be organized into an integrated presentation which can be used as the basis for a Collaborative Research Program on small ruminants. Copies of the report will be distributed to all LDC and developed country institutions which have been identified in C above, not later than 90 days after the effective date of the work order.

E. Invitation to Participate in CRSP

With the distribution of this report, the receiving institutions will be invited to indicate interest in participation in the CRSP. Each will be provided by A.I.D. with a copy of the JRC/BIFAD "Guidelines". Institutions wishing to participate will be invited to submit their proposals in a concise form (not over 3 or 4 pages) along with budgetary requests. The contractor will set an appropriate deadline for his receipt of these proposals.

F. Selection Procedure

The contractor will then evaluate the submitted proposals and the qualifications of the potential participants in the CRSP. To accomplish this, he is authorized to utilize appropriate outside experts; it is urged that he convene a panel of 6 to 10 recognized authorities in agricultural research involving or closely related to small ruminants. There should be developing country representation and experience on such a panel. The contractor is authorized to make visitations to prospective participant institutions to assist in his evaluation of their capabilities.

After a detailed analysis of the state-of-the-arts information assembled in item C above, the researchable constraints in item D, and a review of the research proposals submitted in response to item E the contractor will make recommendations on research and institutions which he believes should be supported by the CRSP, designating which organizations would be primary participants and which ones might carry a secondary role, for example, on a sub-contract basis.

Secondly, the contractor will recommend to A.I.D., BIFAD, and JRC, the choice of an administrative entity for carrying out this function. The expert panel may be used to evaluate choices and make recommendations to the contractor.

4. The Final Report

Upon completion of the planning process, and in no case later than five months after the effective date of the contract, the contractor will submit to JRC/BIFAD and A.I.D. a final report encompassing (but not limited to) the following:

- A. A state-of-the-arts narrative upon which the CRSP is based.
- B. The Program proposed, with details of all contributing projects, including names of institutions and staff being recommended for participating and estimated budget; plans for disseminating the new knowledge generated; expected impact on developing country food production.

- C. The name of the administrative entity being recommended for the total CRSP and a description of the administrative organization.
- D. A summary of procedures which are followed in the planning process.
- E. Copies of all reports and summaries prepared in the course of the planning process.
- F. Minutes of all meetings and other conferences held.
- G. List of all institutions and individuals who were invited to contribute information on problems and research needs.
- H. List of all institutions and individuals who submitted requests for participation in the CRSP, together with a brief summarization of each such request.



IMPACT IDENTIFICATION AND EVALUATION FORM

931-1307 Collaborative Research Planning-Small Ruminant

Impact  
Identification  
and  
Evaluation 2/

Impact Areas and Sub-areas 1/

A. LAND USE

1. Changing the character of the land through:

a. Increasing the population ----- N

b. Extracting natural resources ----- N

c. Land clearing ----- N

d. Changing soil character ----- N

2. Altering natural defenses ----- N

3. Foreclosing important uses ----- N

4. Jeopardizing man or his works ----- N

5. Other factors

-----  
-----

B. WATER QUALITY

1. Physical state of water ----- N

2. Chemical and biological states ----- N

3. Ecological balance ----- N

4. Other factors

-----  
-----

1/ See Explanatory Notes for this form.

2/ Use the following symbols: N - No environmental impact  
L - Little environmental impact  
M - Moderate environmental impact  
H - High environmental impact  
U - Unknown environmental impact

C. ATMOSPHERIC

- 1. Air additives ----- N
- 2. Air pollution ----- N
- 3. Noise pollution ----- N
- 4. Other factors  
-----  
-----

D. NATURAL RESOURCES

- 1. Diversion, altered use of water ----- N
- 2. Irreversible, inefficient commitments ----- N
- 3. Other factors  
-----  
-----

E. CULTURAL

- 1. Altering physical symbols ----- N
- 2. Dilution of cultural traditions ----- N
- 3. Other factors  
-----  
-----

F. SOCIOECONOMIC

- 1. Changes in economic/employment patterns ----- N
- 2. Changes in population ----- N
- 3. Changes in cultural patterns ----- N
- 4. Other factors  
-----  
-----

G. HEALTH

- 1. Changing a natural environment ----- N
- 2. Eliminating an ecosystem element ----- N
- 3. Other factors  
-----  
-----

H. GENERAL

- 1. International impacts ----- N
- 2. Controversial impacts ----- N
- 3. Larger program impacts ----- N
- 4. Other factors  
-----  
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I. OTHER POSSIBLE IMPACTS (not listed above)

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This planning effort will not have any effects on the environment in a plus or minus manner. Projects that develop from the plans will be reviewed more closely as to environment influence after the full scope of effort is determined.

DEPARTMENT OF STATE  
AGENCY FOR INTERNATIONAL DEVELOPMENT

URGENT

August 22, 1977

TA/AGR: Dr. Hesser

SUBJECT: Planning Collaborative Research  
Support Program, Small Ruminants  
(first submission)

Returned per conversation, for revisions  
to the scope of work, with the following  
points to be considered:

1. Focus on the small farmer and the rural poor.
2. Possible mention of small ruminants in intensive farming systems.
3. Issue of the small ruminant as a pest.
4. Broader natural environment aspects of the small ruminant in developing country agriculture.

In general, I think the scope of work should be illustrative, and that the contractor should be encouraged to bring in additional ideas as he goes along, but some of these illustrations may help in that direction.

  
Curtis Farrar, AA/TA

AA/TA:MBelcher  
TA/PPU:JGunning