

UNIVERSITY OF CALIFORNIA, DAVIS

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SANTA BARBARA • SANTA CRUZ

OFFICE OF INTERNATIONAL PROGRAMS
MRAK HALL, ROOM 275
FREDRIC W. HILL, COORDINATOR

DAVIS, CALIFORNIA 95616

Small
Ruminants
CRSP

August 24, 1978

Mr. Morton Darvin
Room 745
1735 North Lynn Street
Rosslyn, Virginia 22209

Dear Mr. Darvin:

Transmitted herewith is the revised University of California (UC) proposal for the Title XII CRSP for Small Ruminants.

In accordance with our telephone conversation, I have applied the UC negotiated indirect cost rates as follows:

- (1) The total direct costs of the Management Entity Program Office and related functions were the basis for applying the rate of 19.7% for off-campus research programs.
- (2) Indirect costs of subgrants and subcontracts were determined at 19.7% of the first \$50,000 and applied for the first year of each subgrant or subcontract only, on the assumption that the policy determination by the HEW auditors will so state. Since their written report has not yet been received, this assumption will be reviewed for its applicability before the second year of the program.
- (3) Indirect costs were not applied on the funds for international travel to be centrally administered by the Management Entity.

The UC Memorandum (Indirect Cost Rate Negotiation Agreement, January 11, 1978) has been included by reference in the grant proposal.

I shall send you a further letter concerning justification of budget items in the near future.

Very truly yours,

Fredric W. Hill
Coordinator of
International Programs

FwH/jwp

Enclosure

UNIVERSITY OF CALIFORNIA, DAVIS

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SANTA BARBARA • SANTA CRUZ

OFFICE OF THE DEAN
GRADUATE STUDIES AND
RESEARCH DEVELOPMENT

DAVIS, CALIFORNIA 95616

August 24, 1978

Mr. Morton Darwin
Room 745
1735 North Lynn Street
Rosslyn, Virginia 22209

Reference: "Title XII Small Ruminants Collaborative Research Support Program"
Principal Investigator: Frederic W. Hill

Dear Mr. Darwin:

It is our pleasure to present for your review a revised application requesting support of the above referenced grant. The original proposal was submitted to Mr. Robert J. O'Brien on July 28, 1978.

During your review, technical questions should be directed to Dr. Hill. Administrative questions should be directed to me or to (Mrs.) Marilyn Rush, (916) 752-2075. However, any correspondence pertaining to an award, or the award notice itself, should be directed as follows and a copy sent to Dr. Hill:

Allen G. Marr, Dean,
Graduate Studies & Research
University of California
275 Mrak Hall
Davis, California 95616

Your favorable consideration of this application will be appreciated.

Very truly yours,

Jonellen C. Goddard
Jonellen C. Goddard
Research Coordinator

JCG/lmv

Enclosure

cc: F. W. Hill

TABLE 2

As noted - corrected by Controller below.

MANAGEMENT ENTITY BUDGET

	<u>1978-79</u>	<u>1979-80</u>
<u>SALARIES</u>		
<u>PROGRAM OFFICE</u>		
Program Director (Faculty or Acad. Admin.)	\$ 34,700	\$ 36,435
Stipend	3,000	3,000
Special Assistant (Controller)	24,100	25,305
Benefits @ 23%	14,214	14,890
Administrative Assistant II	11,388	12,527
Benefits @ 22%	4,700	5,170
	<u>\$102,074</u>	<u>\$108,297</u>
<u>UCD INT'L PROGRAMS OFFICE</u>		
Coordinator (10%)	4,480	4,684
Benefits @ 23%	1,030	1,077
	<u>\$5,510</u>	<u>\$5,761</u>
	\$107,584	\$114,058
<u>MOVING EXPENSES (estimated maximum costs)</u>		
Program Director and family		
Transportation	\$ 7,400	
Shipping household goods	<u>10,000</u>	
	TOTAL	\$17,400
<u>RENTAL OFFICE SPACE</u>		
3 rooms, 700 sq. ft. - \$875/mo TOTAL	\$10,500	\$11,025
<u>EQUIPMENT</u>		
Office Furniture	\$ 3,580	
2 typewriters	1,500	
1 Mag Card II typewriter	10,592	
1 Photocopier (Xerox 3100)	5,200	
Dictating/Transcribing Units (4 desk top/2 pocket)	<u>2,500</u>	
	TOTAL	\$23,372

*Central fund provided for
international per diem
travel.*

	<u>1978-79</u>	<u>1979-80</u>
4) Technical Program Committee. Seventeen Principal Investigators. One meeting per year. Travel and per diem costs (total \$8,500) assumed to be provided by individual project funds.	---	---
5) Meeting rooms (12 days @ \$30/day)	<u>360</u>	<u>381</u>
TOTAL	\$30,860	\$33,181
 TOTAL DIRECT COSTS	 \$322,334	 \$298,651
LESS EQUIPMENT	298,962	298,651
INDIRECT COSTS (.197 off-campus)	<u>58,896</u>	<u>58,835</u>
DIRECT + INDIRECT COSTS	<u>\$381,230</u>	<u>\$357,486</u>
 International travel and per diem funds will be held as a central fund by the Management Entity, and will be allocated for use by project staff and participants as needed.		
International Travel and Per Diem	\$265,036	\$232,104
 Indirect costs of administration of subcontracts to participating institutions, applied to \$50,000 of each subcontract.		
\$50,000 x .197 x 15 subcontracts	<u>147,750</u>	<u> </u>
GRAND TOTAL	<u>\$794,016</u>	<u>\$589,590</u>

REVISED AUGUST 24, 1978

APPLICATION TO: Agency for International Development, Washington, D.C.

I. Name and Address of Institution:

The Regents of the University of California
University of California
Davis, California 95616

II. Title of Proposed Research:

Title XII Small Ruminants Collaborative Research Support Program

III. Proposed Starting Date:

October 1, 1978

IV. Total Period for Which Support is Requested:

5 years: October 1, 1978 to September 30, 1983

V. Support Requested for First Year:

- (a) Management Entity - \$794,016
- (b) Research Subprojects - \$2,568,573

VI. Total Support Requested:

- (a) Management Entity - \$3,152,376
- (b) Research Subprojects - \$13,065,738

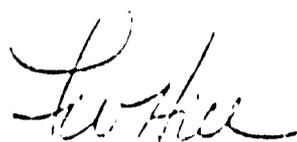
VII. Other Sponsors:

None

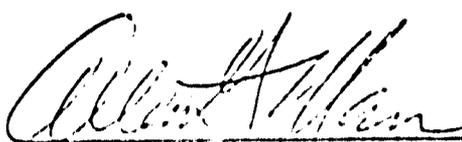
VIII. Checks Should be Made Payable To:

The Regents of the University of California
c/o Accounting Officer, Richard J. Frost
University of California
Davis, California 95616

IX. Approvals:



FREDRIC W. HILL
Associate Dean for Research
Coordinator of
International Programs



ALLEN G. MARR
Dean, Graduate Studies & Research

MANAGEMENT AND IMPLEMENTATION OF THE TITLE XII COLLABORATIVE
RESEARCH SUPPORT PROGRAM (CRSP) ON SMALL RUMINANTS

Title XII of the International Development and Food Assistance Act of 1975 has as one of its major objectives bringing together the resources and expertise of universities and other research institutions in the United States with developing country universities and institutions into programs to attack the problems of food production and utilization in developing countries. The proposed Collaborative Support Research Program (CRSP) is comprised initially of 17 component research projects in 13 U.S. universities and research institutions and the planned development of research facilities and programs in four overseas locations.

The participating institutions in the program are:

University of California, Davis	Texas A & M university
California State Polytechnic University	Texas Tech University
Colorado State University	Tuskegee Institute
University of Missouri	Utah State University
Montana State University	Washington State University
Ohio State University	Winrock International Live- stock Center (subcontractor)
North Carolina State University	

The long range goal of the program is to increase efficiently the production of meat, milk and fiber of sheep and goats. Immediate goals include:

1. Expand the body of knowledge on small ruminant, smallholder production systems.
2. Develop and test appropriate technologies and practices to improve productivity of target production systems.
3. Expand the level of competence of scientists to conduct research on small ruminant smallholder production systems.
4. Improve small ruminant food and fiber production capability of developing countries.

Program development for the Collaborative Research Support Program for Small Ruminants was undertaken by Research Triangle Institute under contract to the US Agency for International Development (AID) and the Joint Research Committee (JRC) of the Board for International Food and Agricultural Development (BIFAD). The detailed program plan is contained in the final report from the Research Triangle Institute in June, 1978: the final report (RTI-1527-00-08F) and the appendix volume (RTI-1527-00-08F) containing the detailed research component plans, are hereby incorporated by reference in this proposal.

The program plan developed by Research Triangle Institute included a program management plan in which a Management Entity would serve as the legal and fiscal institution to receive and administer AID grant funds, suballocating them to the participating US and developing country institutions for their respective project activities in the United States and developing countries, and would provide central program direction and technical management. By recommendation of the Principal Investigators of the component projects and by the institutional representatives of the thirteen eligible participating United States institutions, the University of California at Davis was selected by BIFAD and AID to serve as the Management Entity.

THE PROGRAM

The program plan developed by Research Triangle Institute contains seventeen component projects developed by Principal Investigator scientists at the thirteen participating institutions, and integrated in conformance with the objectives of the program. As the designated Management Entity, the University of California at Davis regards the component project proposals as a preliminary description of

the research activities to be carried out. The project proposals describe the problems to be addressed, the research approach to be used and the nature and approximate extent of work in overseas locations. To complete the detailed research plans and procedures of the component projects in both the US and developing country institutions, and to provide a basis for future evaluations of progress and accomplishments of the program, the Management Entity will require each principal investigator to provide a detailed research plan and budget before negotiating a subcontract or subgrant with each respective participating institution. While it is recognized that some planning cannot proceed until foreign work sites are identified, more detailed research plans and budgets than those presented in the RTI plan will be required. These revised project proposals will be prepared in coordination with principal investigators of related projects, and under the direction of the program director to assure that the individual projects form an integrated and efficient program. To the extent possible, input of developing country scientists into the research plans will be obtained. Each project proposal will include appropriate management tools for evaluation, such as a schedule of research operations and targets for accomplishment

BUDGET

In the light of the preliminary status of the program plans, it is understandable that the project budgets also lack detail and specificity. In part, this is due to the tentative nature of the overseas research activities and the locations and facilities to be involved. An early need will be the selection of overseas locations, which will be undertaken with consultation of AID Regional Bureaus, and the development of facilities and staff for research at these places. It is expected that this work will be undertaken very soon after the selection of the program director.

The budget for each research project will be subject to revision in response to needs and priorities as detailed research plans are formed and revised from time to time. In making needed adjustments in the allocations to the budgets of component projects, the Management Entity will be advised by the Board of Institutional Representatives and by the Technical Committee. The individual project budgets presented in the RTI program plan show the contributions of AID and the participating institution to each budget category, and the overall costs supported by AID and each participating institution. The Management Entity will assure that the participating institutions jointly contribute cost sharing at the level required for the CRSP, currently 25%. The Management Entity will also require that all subcontractors and subgrantees establish suitable accounting and reporting procedures to enable federal audit of all costs.

For information purposes, the budget requests for the component projects are summarized by category in the attached Table 1. It is expected that the funds to be granted by AID will provide the aggregate total requested funds as developed by the Principal Investigators for the RTI Program Plan.

PROGRAM MANAGEMENT

Figure 1 attached to this Proposal diagrams the organizational relationship of units involved in the management of the program. The following narrative defines the responsibilities and operational procedures contemplated.

Management Entity - The University of California, Davis will receive and administer AID grant funds for the program. Funds will be allocated to the participating institutions in the United States and in developing countries for the component projects of the program. The Management Entity will employ a qualified program director and a fiscal officer and supporting staff for the direct management of the program. The program director will recommend the annual allocation of funds to the participating institutions by procedures

which will involve the Technical Committee of Principal Investigators and the Board of Institutional Representatives as discussed below. The University of California, Davis will be accountable to AID for all project funds, and will negotiate appropriate subcontracts or subgrants with the participating institutions to ensure suitable fiscal reporting by each institution.

As Management Entity, the University of California, Davis will be responsible for implementing the program of research and training and will report to AID on the progress and accomplishments of the program. As needed, the University of California, Davis will recommend and negotiate with AID the addition or deletion of program elements and changes in program objectives. Such changes in scope and composition of program will be based on the advice and recommendations of the External Evaluation Committee, the Board of Institutional Representatives, and the Technical Committee of Principal Investigators described below.

The Office of International Programs at the University of California, Davis will be the administrative unit of the University which will provide reports to AID and to BIFAD/JRC. The program director will be administratively responsible to the Coordinator of International Programs.

Board of Institutional Representatives - Each participating institution will have one representative on this Board. It is expected that each institutional representative will have authority to make institutional commitments. The Board will recommend general program policy, taking into consideration the changing technical requirements of the program and the recommendations of the External Evaluation Committee. The Board will recommend approximate funding levels of the component projects including the addition or termination of component projects.

External Evaluation Committee - This committee will be composed of a multi-disciplinary group of eminent scientists. The committee will be appointed by the Management Entity with the advice of the Board and the Technical Committee, and in consultation with the Chairman of JRC. Generally, the members of this committee will be from institutions other than those participating in the Small Ruminants CRSP. However, qualified persons from participating institutions will be eligible for membership and may be appointed in exceptional and justifiable instances, provided that they are not directly associated with any of the component projects or otherwise have a vested interest in the program. The External Evaluation Committee will be formed early in the program, and if possible will participate in the review of detailed research plans and budgets to be provided by the Principal Investigators as discussed above.

Written reports prepared by the External Evaluation Committee will be submitted simultaneously to the Management Entity, to AID, and to BIFAD/JRC.

Technical Committee - The Technical Committee will be made up of the United States and developing countries Principal Investigators of the component projects. With the leadership of the program director, the Technical Committee will develop the means for integration of research and training activities of the component projects to maximize progress towards the objectives of the program. A particular responsibility of the Technical Committee will be the development of plans for overseas facilities and the foreign components of research and training activities. The Technical Committee will recommend changes in the scope of work and objectives of the projects and program.

Program Subcommittees - In order to achieve integration of component projects and activities, the principal investigators and program director may find

it useful to organize subcommittees or task groups. Without specifying the nature of the suborganization, the intent to encourage and provide funds for such work is stated here. In particular, it is expected that such work units will be especially useful in carrying out the work in foreign locations.

Site Coordinators - A staff person designated as site coordinator will be employed by the management entity at developing country locations as needed. A site coordinator will function to provide logistical services for Principal Investigators and other participating scientists in work conducted at the foreign location. A site coordinator will have the technical capability of supervising the conduct of work planned by US investigators for execution at the foreign location. A further important function of a site coordinator will be to provide a communication linkage between the US scientists and the scientists and technical experts of the developing country. The identification and perception of problems, and the opportunities for using research information, can be facilitated by the site coordinators.

MANAGEMENT BUDGET

The proposed budget for the Management Entity is separately reported in Table 2. It provides for the program staff, for office space and equipment, for travel by program staff, for operating expenses of program staff, and for the travel and meetings of the various units of the management structure of the project described above.

Two indirect cost items are identified in Table 2. One is the indirect cost of the budget of the program staff. The second is the indirect cost of subcontracting or subgranting funds to the other participating institutions,

which is applied to the first \$50,000 of each subcontract. Both indirect cost items are determined by the rate approved for off-campus organized research for the University of California System for contracts and grants with federal agencies (Indirect Cost Rate Negotiation Agreement, January 11, 1978 is incorporated by reference).

In the RTI management plan, it was anticipated that the program staff would include an information officer. Provision for such a staff person has not been provided in the proposed budget for the Management Entity for the first year of the program, on the basis that this function would be limited during the formative stages of the program. The need for an information officer will be assessed later and appropriate provisions made as needed.

CONSOLIDATED BUDGET REQUEST

The consolidated budget for the first year of the program is presented in Table 3, showing direct, indirect and total funds requested for each component project and the management entity. As stated above in the sections on Program and Budget, the requests for the component projects are considered preliminary. The funds to be provided to each institution will be negotiated on the basis of more specific plans to be developed by each Principal Investigator

Request for Subsequent Years

<u>Year</u>	<u>AID FUNDS</u>
2 (1979-80)	\$3,164,453
3 (1980-81)	\$3,215,677
4 (1981-82)	\$3,236,366
5 (1982-83)	\$3,220,509

These totals are derived from the projected budgets of the component projects, with the assumption that the management entity costs will remain as shown for 1979-80 in Table 2.

FIGURE 1

ORGANIZATIONAL CHART
COLLABORATIVE RESEARCH SUPPORT PROGRAM
ON SMALL RUMINANTS

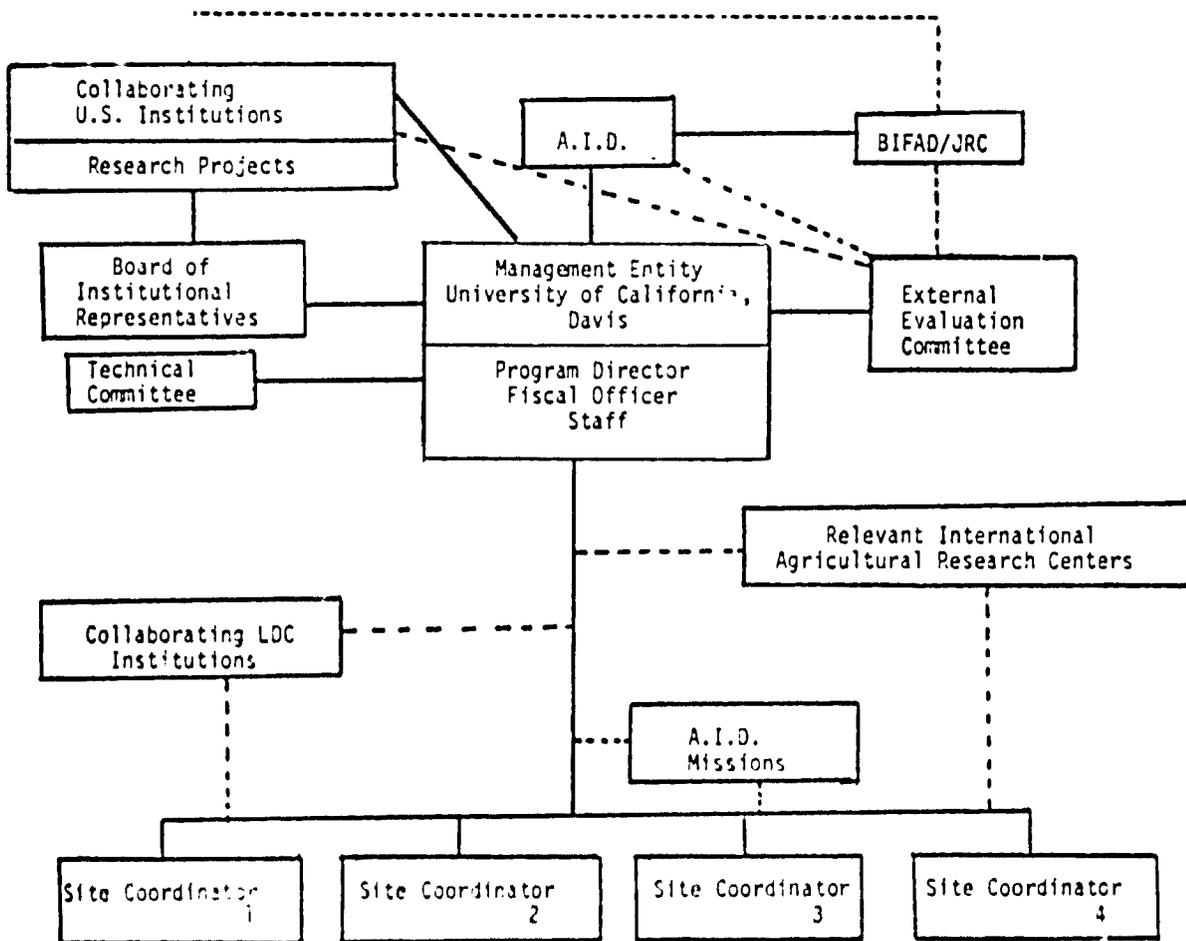


TABLE 1
AID/LDC CONTRIBUTION
1978-79

	Cal Poly, Pomona (Reproductive Physiology)	Colorado State (Herd Flock Health)	Montana State (Genetic Improvement)	North Carolina State (By Product Utilization)
PERSONNEL	\$34,300	\$47,150	\$84,633	\$48,107
MAJOR EQUIPMENT, FACILITIES & ANIMALS	2,200	35,000	10,000	6,500
TRAVEL & PER DIEM				
(1) Domestic	3,000	1,139	3,000	2,000
(2) International	4,000	8,000	23,000	4,000
SITE MAINTENANCE SHARE	4,500	22,500	30,000	14,531
OTHER DIRECT COSTS	4,000	-	9,234	12,617
INDIRECT COSTS	8,000	36,211	40,133	9,103
TOTAL	\$60,000	\$150,000	\$200,000	\$96,858

*This figures reflects \$1,846 cost sharing contribution by Montana State.

TABLE 1

	Ohio State (Forage Production)	Texas Ag Exp Sta (Systems Analysis)	Texas Ag Exp Sta (Meat Goat/ Hair Sheep Eval)	Texas Tech (Range Grazing Mgmt)	Tuskegee Institute (Dairy Goat Mgmt Sys)
PERSONNEL	\$73,652	\$109,445	\$88,585	\$41,950	\$59,800
MAJOR EQUIPMENT, FACILITIES & ANIMALS	3,000	-	17,334	68,000	10,000
TRAVEL & PER DIEM					
(1) Domestic	1,000	2,500	1,400	-	1,000
(2) International	14,000	12,600	10,800	25,000	5,000
SITE MAINTENANCE SHARE	22,500	13,125	11,250	30,000	15,000
OTHER DIRECT COSTS	11,427	19,635	7,750	18,000	9,200
INDIRECT COSTS	24,421	26,695	22,881	17,050	-
TOTAL	\$150,000	\$184,000	\$160,000	\$200,000	\$100,000

TABLE 1

	U.C., Davis (Genetic Improvement)	U.C., Davis (Herd/Flock Health)	Univ. of Missouri (Social Constraints)	Utah State (Range Grazing Mgmt)
PERSONNEL	\$60,835	\$35,244	\$76,062	\$72,400
MAJOR EQUIPMENT, FACILITIES & ANIMALS	50,000	50,000	1,000	40,000
TRAVEL & PER DIEM				
(1) Domestic	3,000	3,000	-	2,000
(2) International	15,000	15,000	43,400	10,000
STATE MAINTENANCE SHARE	30,000	30,000	13,150	30,000
OTHER DIRECT COSTS	12,768	36,500	5,168	1,100
INDIRECT COSTS	28,227	26,401	36,220	32,400
TOTAL	\$200,000	\$196,145	\$175,000	\$187,900

TABLE 1

	Utah State (Repro Physiology)	Washington State (Herd/Flock Health)	Winrock Int'l (Dairy Goat Mgmt)	Winrock Int'l (Economic Analyses)	TOTALS
PERSONNEL	\$34,938	\$101,220	\$38,000	\$103,875	\$1,110,196
MAJOR EQUIPMENT, FACILITIES & ANIMALS	13,000	12,800	18,000	5,000	341,834
TRAVEL & PER DIEM					
(1) Domestic	5,000	2,350	4,000	7,500	41,889
(2) International	5,300	9,436	18,000	42,500	265,036
SITE MAINTENANCE SHARE	6,750	22,500	15,000	13,125	323,931
OTHER DIRECT COSTS	19,842	40,600	7,000	3,000	217,841
INDIRECT COSTS	14,970	10,000	-	-	332,882
TOTAL	\$99,800	\$198,906	\$100,000	\$175,000	\$2,633,609
DEVELOPING COUNTRIES (UNASSIGNED)					200,000
GRAND TOTAL					\$2,833,609

LESS INT'L TRAVEL AND PER DIEM

\$2,568,573

TABLE 2

MANAGEMENT ENTITY BUDGET

	<u>1978-79</u>	<u>1979-80</u>
<u>SALARIES</u>		
<u>PROGRAM OFFICE</u>		
Program Director (Faculty or Acad. Admin.)	\$ 34,700	\$ 36,435
Stipend	3,000	3,000
Special Assistant (Controller)	24,100	25,305
Benefits @ 23%	14,214	14,890
Administrative Assistant II	{ 11,388	12,527
Principal Typist Clerk	{ 9,972	10,970
Benefits @ 22%	4,700	5,170
	<u>\$102,074</u>	<u>\$108,297</u>
<u>UCD INT'L PROGRAMS OFFICE</u>		
Coordinator (10%)	4,480	4,684
Benefits @ 23%	1,030	1,077
	<u>\$5,510</u>	<u>\$5,761</u>
TOTAL	\$107,584	\$114,058
<u>MOVING EXPENSES (estimated maximum costs)</u>		
Program Director and family		
Transportation	\$ 7,400	
Shipping household goods	<u>10,000</u>	
TOTAL	\$17,400	
<u>RENTAL OFFICE SPACE</u>		
3 rooms, 700 sq. ft. - \$875/mo TOTAL	\$10,500	\$11,025
<u>EQUIPMENT</u>		
Office Furniture	\$ 3,580	
2 typewriters	1,500	
1 Mag Card II typewriter	10,592	
1 Photocopier (Xerox 3100)	5,200	
Dictating/Transcribing Units (4 desk top/2 pocket)	<u>2,500</u>	
TOTAL	\$23,372	---

Corrections tentatively made by MDarvin -
to be confirmed 25 AUG 78 with FWHill.

	<u>1978-79</u>	<u>1979-80</u>
<u>SUPPLIES & EXPENSE</u>		
4 telephones	\$ 1,500	
Tolls and Cables	1,000	
Office Supplies	2,500	
Equipment Maintenance	1,185	
Postage	<u>500</u>	
TOTAL	\$ 6,685	\$ 7,019
<u>TRAVEL BY PROGRAM AND MANAGEMENT STAFF</u>		
<u>FOREIGN</u>		
2 trips/year to each of four foreign labs	\$ 7,834	
Passport, visa, inoculations, ground transportation photograph, medical examination (\$185/trip)	925	
Per Diem (70 days)	<u>3,500</u>	
TOTAL	\$12,259	\$12,871
<u>DOMESTIC</u>		
To Washington (8 trips)	\$ 3,600	
To collaborating institutions (2x/each annually)	3,600	
Per Diem (100 days)	<u>4,400</u>	
TOTAL	\$11,600	\$12,200
<u>MEETINGS</u>		
1) Conference at UCD for business officers of collaborating universities. Travel and per diem for 12 persons.	\$ 6,000	---
2) Board. Thirteen institutional representatives. One meeting per year.	6,000	6,300
3) External Evaluation Committee. Five persons. One annual meeting for general review of progress of entire project, held at a participating University. Two additional site visits per year for each committee member.		
Domestic travel	\$ 8,000	\$ 8,000
Foreign travel	--	8,000
Consultant fees for committee members(@ \$150/day)	10,500	10,500

	<u>1978-79</u>	<u>1979-80</u>
4) Technical Program Committee. Seventeen Principal Investigators. One meeting per year. Travel and per diem costs (total \$8,500) assumed to be provided by individual project funds.	---	---
5) Meeting rooms (12 days @ \$30/day)	360	381
TOTAL	\$30,860	\$33,181
TOTAL DIRECT COSTS	\$ 220,260 \$322,334 196,888	\$ 190,354 \$298,557 190,354
LESS EQUIPMENT	298,962 38,787	298,651 37,580
INDIRECT COSTS (.197 off-campus)	58,896	68,835
DIRECT + INDIRECT COSTS	\$381,230 \$259,047	\$357,486 \$227,854
International travel and per diem funds will be held as a central fund by the Management Entity, and will be allocated for use by project staff and participants as needed.		
International Travel and Per Diem	\$265,036	\$232,104
Indirect costs of administration of subcontracts to participating institutions, applied to \$50,000 of each subcontract.		
\$50,000 x .197 x 15 subcontracts	147,750	
GRAND TOTAL	\$792,016 \$671,833	\$589,590 \$459,958

Corrections tentatively made by MDerwin to be confirmed 25 AUG 78 with FW Hill.

TABLE 3

CONSOLIDATED BUDGET REQUEST

1978-79

<u>INSTITUTION & RESEARCH PROJECT</u>	<u>TOTAL DIRECT COSTS*</u>	<u>TOTAL INDIRECT COSTS</u>	<u>TOTAL</u>
California State Polytechnic University, Pomona (Reproductive Physiology)	\$ 52,000	\$ 8,000	\$ 60,000
Colorado State University (Herd/Flock Health)	113,789	36,211	150,000
Montana State University (Genetic Improvement)	159,867	40,133	200,000
North Carolina State University (By Product Utilization)	87,755	9,103	96,858
Ohio State University (Forage Production)			150,000
Texas Agricultural Experiment Station (Systems Analysis)	157,305	26,695	184,000
Texas Agricultural Experiment Station (Meat Goat/Hair Sheep Evaluation)	137,119	22,881	160,000
Texas Tech University (Range/Grazing Management)	182,950	17,050	200,000
Tuskegee Institute (Dairy Goat Management System)	100,000	-	100,000
University of California, Davis (Genetic Improvement)	171,603	28,397	200,000
University of California, Davis (Herd/Flock Health)	169,744	26,401	196,145
University of Missouri (Social Constraints)	138,780	36,220	175,000
Utah State University (Range/Grazing Management)	155,500	32,400	187,900
Utah State University (Reproductive Physiology)	84,830	14,970	99,800
Washington State University (Herd/Flock Health)	188,906	10,000	198,906
Winrock International (Dairy Goat Management System)	100,000	-	100,000
Winrock International (Economic Analyses)	175,000	-	175,000
Developing Countries (Unassigned)	200,000	-	200,000
<u>MANAGEMENT ENTITY</u>			
Program Staff and Functions	\$321,214	\$58,675	\$379,889
International Travel and Per Diem	265,036	52,213	317,249
Indirect Costs of Administering Subcontracts	-	147,750	147,750
PROGRAM TOTAL	\$686,250	\$258,638	\$944,888

*Indirect Costs Int'l Travel & Per Diem shown also in Management Entity General Fund