

WORK PLAN

Utah State University

and

Agency for International Development

18p.

Title: Feed Information System

Project Number: 931-11-130-050-73

Supervising Project Leader: Dr. L. E. Harris

Effective Date: November 15, 1974 to November 15, 1977

Date Report Due: February 15, 1975

Objective:

To provide technical assistance and advice to Less Developed Countries (LDCs) in the development and utilization of information (nutritive value) about feeds available for livestock in formulating diets that most economically satisfy the animals' requirements for regular reproduction, optimal growth, weight gains, and milk and/or other production. To accomplish this objective, which states the overall purpose of the project, the work plan has been divided into the following sections:

International Network of Feed Information Centers (INFIC)

INFIC Meetings

Workshops and Seminars

Latin American Feed Information Center(s)

Symposium

Suggested Travel

Publications

Reports

International Network of Feed Information Centers

There have been four meetings of the International Network of Feed Information Centers (INFIC) (Figure 1). All centers were not represented at each meeting.

- Australian Feeds Information Center, Canberra, Australia
- Canadian Feed Information Center, Ottawa, Canada
- Dokumentationsstelle der Universitat, Hohenheim, Stuttgart-Hohenheim,
- Federal Republic of Germany
- Florida Feeds Information Center (AID for Latin America), Gainesville, Florida, USA
- l'Institut d'Elevage et de Medecine Veterinaire de Pays Tropicaux, Maisons-Alfont, France
- FAO Feed Information Center, Rome, Italy
- International Feedstuffs Institute, Logan, Utah, USA
- Tropical Products Institute, London, U.K.
- Agency for International Development (AID), Washington, D.C., USA

The work at the University of Florida has now been moved to the International Feedstuffs Institute at Utah State University.

Since the last meeting was held, an International Livestock Center for Africa (ILCA) has been established in Ethiopia. The West German Government is funding the feed composition work at ILCA, and ILCA, in turn, is financing FAO and part of the expenses at Hohenheim.

Each center will be responsible for funding (except as noted above) its own personnel, data retrieval, data exchange, research and publications.

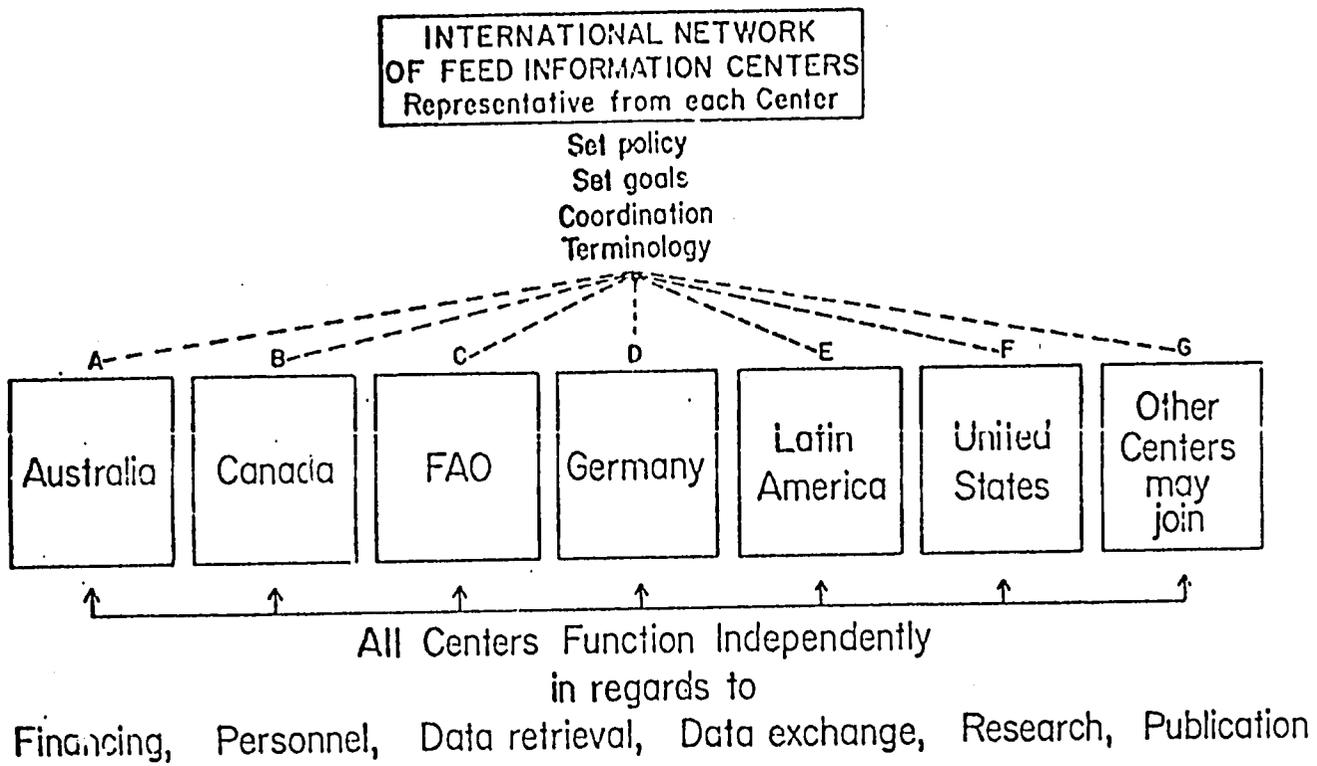


Figure 1. Organization of the International Network of Feed Information Centers

The INFIC group will meet at the discretion of the chairman to set policy, goals, coordination and terminology. FAO will be responsible for the program's nontechnical phases. The International Feedstuffs Institute at Utah State University will be responsible for correlating and administering the technical phases (Figure 2).

Each Center will be responsible for different regions of the world. At present only the centers at Hohenheim and Utah are able to undertake computerized handling. However, the Institutes in Canberra and Maisons-Alfort plan to reach this stage shortly. It is therefore planned that, for the time being, data collected by institutions without computer facilities will be sent to one of the two fully equipped centers. The complete correlation of master tapes will, however, be undertaken by a single center only; at present this is Utah. The distribution of geographic responsibility is as follows:

- Africa: Hohenheim, in cooperation with FAO, ILCA, IEMVT and TPI;
- Europe: Hohenheim;
- Latin America: Utah;
- Near East: Utah, in cooperation with FAO and TPI;
- North America: Utah and Ottawa;
- Oceania and South East Asia: Canberra and Utah.

Published feed data and information are collected from world literature.

Utah will work cooperatively with Latin America to establish a center as outlined below:

Cooperation With INFIC

The Utah Center will help each center instruct its staff members on how to:

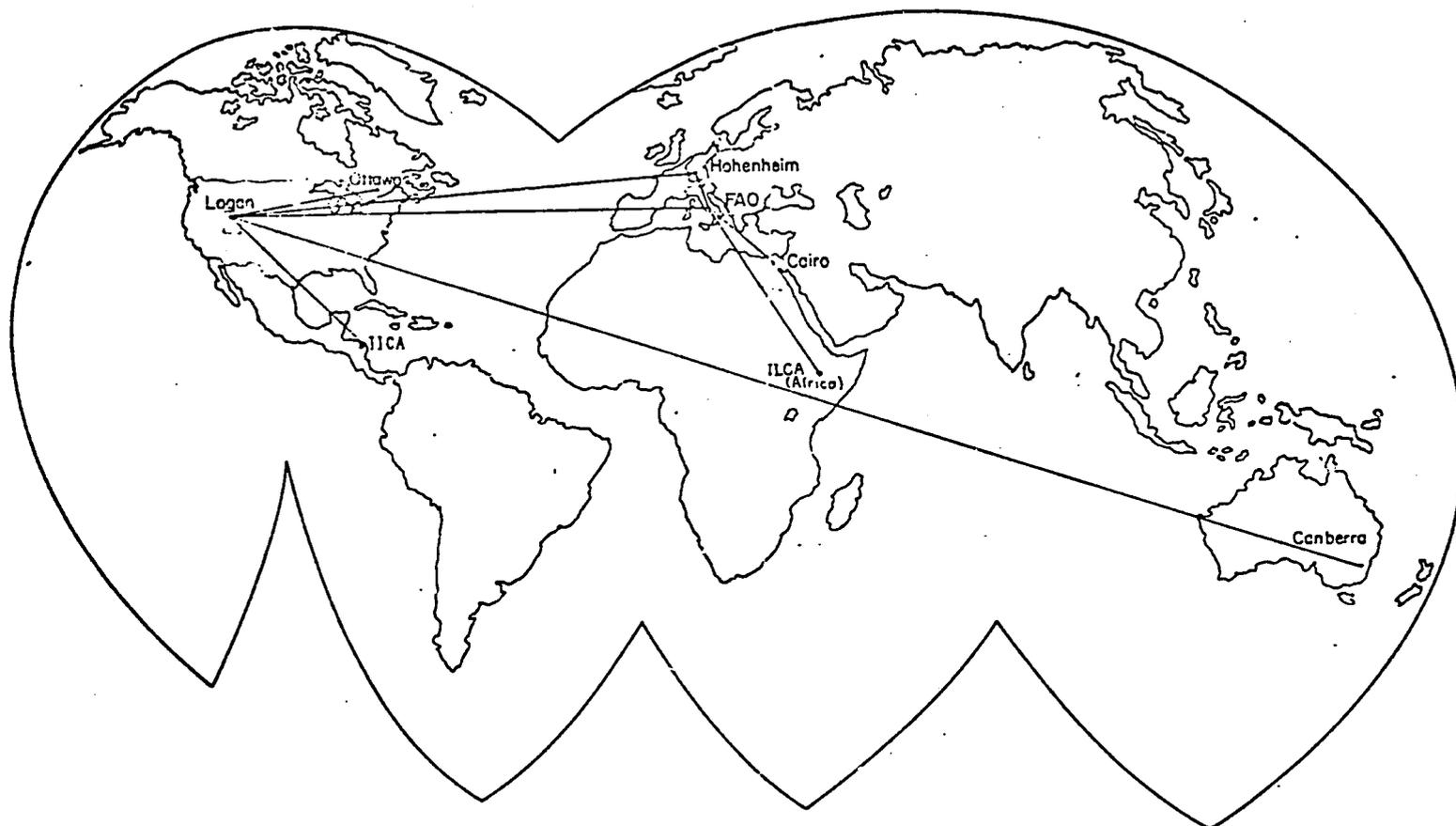


Figure 2. The International Feedstuffs Institute at Utah State University will correlate the Technical phases within the International Network of Feed Information Centers

- collect data and fill in source forms,
- code source forms,
- prepare cards or tape to enter information into the computer,
- write and execute computer programs for summarizing the data,
- make formats for printing or retrieving data directly from the computer, and how to
- use the data in making up diets or rations for animals to produce more milk, meat, eggs and fiber.

The Utah Center will be responsible for correlating:

- international terminology,
- international feed name files, and
- transferring all data, names, and abstracts into a master tape for an "International Nutrition Bank" for exchange among centers (Figure 3).

1974-75

A meeting held at Hohenheim, Germany from November 16 to November 30, 1974, was attended by: Dr. L. Mayer of FAO, Dr. R. Riviere and Mon. L. Rechaussat of France, Dr. Haendler and his staff of Germany, Dr. L. E. Harris and Mr. Karl Fugal of Utah. The purpose of the meeting was to acquaint those present with the "International System" and to introduce computer programs.

The terminology was examined in detail and some revisions were made. Each group was assigned certain phases to study, with recommendations to be made at a future meeting. Mr. Fugal was able to put most of the programs on the ICL computer at Hohenheim. However, a few changes were made in the way the data is to be handled and working out the details may require more trips.

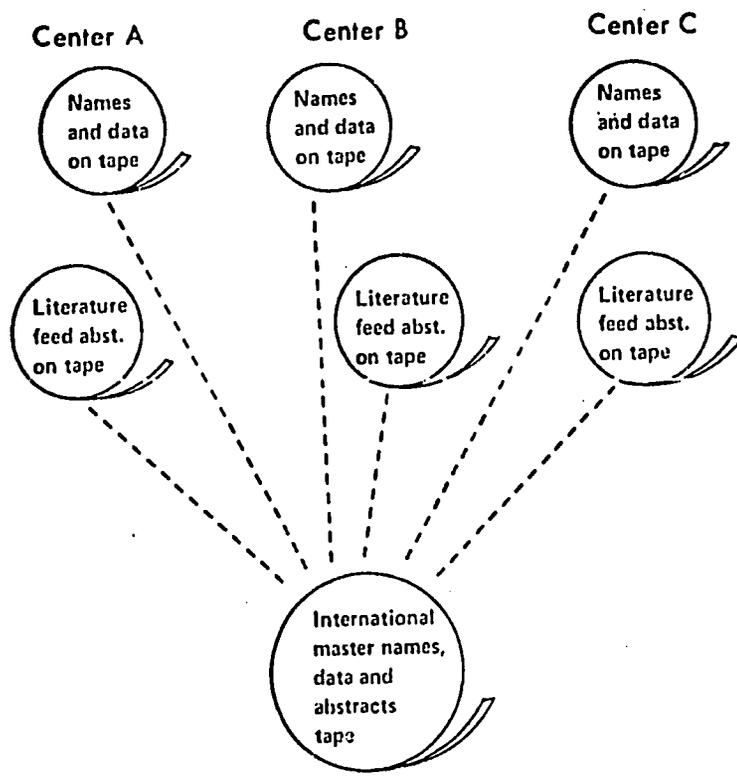


Figure 3. Data and literature abstracts from each Center will be put in an "International Master Feed Information Tape".

Dr. Haendler and his group agreed to convert all of their data to the international format and to finish translating the name file into German. Dr. Riviere and Mon. Rechaussat agreed to translate the name file into French so that the procedures can be used in the French-speaking countries of Africa. Dr. Harris agreed to correlate the updated terminology and send copies to the various members of INFIC.

It was decided to not have an INFIC meeting in 1975. In lieu, it was proposed that Dr. L. E. Harris and Mr. Karl Fugal go to Germany some time this spring or summer to work out more details on the "International System." Dr. Riviere and Mon. Rechaussat, Dr. Pogot, Director of ILCA, and Dr. Mayer would be invited to this meeting.

Such correlation meetings are important because the productivity of the work in the Mid East and Africa depends largely on how well the Hohenheim, Paris, ILCA, FAO and Utah centers can agree on the "International System."

1975-76

The work will be correlated as outlined above. Utah personnel may have to travel to each center (Australia, Canada, France, Germany, and FAO) in the spring of 1976 to bring them up to date on all facets of the "International System."

1976-77

The work will be correlated as outlined above.

INFIC Meetings

The purpose and function of INFIC has been outlined above. At INFIC meetings, the Chairman outlines developments that have occurred since the previous meeting, and representatives from each center report about programs and the general situation as they pertain to the work at their center.

Ways to gain the cooperation of organizations outside of INFIC (International Union of Nutrition Scientists, etc) that have goals relevant to the INFIC objectives, are presented. Common problems confronting the centers are resolved and goals and objectives are outlined.

1974-75

The Chairman of INFIC, its representative at FAO, is responsible for determining the time and place of the INFIC meetings. To date, four INFIC meetings have been held: two in Rome, one at Hohenheim and one at Utah. At present a 1975 meeting is not planned.

1975-76

An INFIC meeting is to be hosted by the Canadian Center, Ottawa, Canada prior to the International Symposium to be held at Logan, Utah in July-August, 1976.

1976-77

At this time there are no plans to hold an INFIC meeting in 1977. If final reports and publications are to be readied for the participating countries during this year, it would be desirable to hold a meeting to discuss format,

procedures and other matters pertaining to this phase of the project. Possibly an INFIC meeting could be held at ILCA in Ethiopia, together with a workshop where all persons from LDCs could participate, particularly from Africa and the Mid East.

Workshops and Seminars

Workshops and seminars will be scheduled in conjunction with every trip, particularly those to LDCs. The purpose of such workshops and seminars is to acquaint technicians and laboratory personnel with the problems encountered in naming feeds, standardizing chemical analysis methods, and using the data to produce more milk, meat, fiber and eggs. Scheduled visits to the various Mid East countries will allow time for these presentations (4 to 5 days in each country). Workshops will be conducted at each laboratory, if necessary, or at regional meetings accommodating several laboratories whenever possible. The important point is to schedule sufficient time for a thorough presentation and demonstration of the procedures required in naming feeds and filling in the source forms.

Whenever desirable and feasible, seminars will be conducted to illustrate various methods of diet formulation and the means that are employed to ensure a proper balance of nutrients that will promote the animal response required (maintenance, milk production, etc.).

A trip is tentatively planned to Lebanon, Iraq, Iran, Israel, Jordan, Pakistan, Syria, Egypt, Turkey and Cyprus. Clearance and exact dates for this trip will be coordinated with AID, FAO and Utah personnel.

The purposes of this first visit are:

1. To discuss the possibility of close cooperation with INFIC, and in

particular with Utah State University.

2. To make a brief survey of feed sources, analytical data, and how the feed is utilized.
3. To assess the need and potential for expansion of feed analysis work.
4. To discuss technical aspects of data recording and transfer to INFIC, and analytical methodology.
5. To discuss how to use the feed data to balance diets by hand or, if desirable, how to generate and use computerized ration formulation.

Whenever trips are made during the length of the project, seminars and workshops will be held (see section on travel).

Latin American Feed Information Center(s)

It is planned to help Latin American countries set up a "Feed Center(s)". Hopefully, this will be done before 1977. The timing, however, will depend primarily on agreement among the Latin American countries and finances.

When the first Latin American center is formed, personnel from Utah State University will help train the staff to proficiency in sending out source forms, processing data, developing computer programs for storing, summarizing, retrieving and printing out data.

Until the center is formed, laboratories will be supplied source forms and instruction books as requested from Utah. Completed source forms will be forwarded to Utah. A printout of data (by country) from the present Latin American Atlas of Feed Composition will be sent to each collaborating country.

1974-75

At Guatemala and Turrialba in December, 1974, Dr. C. F. Sierk organized two fruitful meetings concerned with setting up a Latin American Feed Center.

Those attending the meetings included Drs. Ricardo Bressani (President, INCAP, Guatemala), C. Chicco (President of ALPA from Venezuela), J. H. Conrad, T. J. Cunha, Hernan Fonseca (Costa Rica), J. K. Loosli, L. R. McDowell, J. Maner (CIAT), Hector Manoz (next president of ALPA), and C. F. Sierk.

Dr. C. Chicco, who is president of ALPA, agreed to put this matter on the agenda to be discussed by the board of directors of ALPA at meetings to be held in July, 1975, at Brasilia. Drs. Chicco and Fonseca were reasonably sure that ALPA would go on record as approving support for a Feed Center(s).

A meeting has been scheduled with Mr. Mike Galli, Mr. Ed Shuart (AID), and Dr. Enrique Blair, representative of IICA in Washington, D.C., January 30, 1975 to discuss further plans and arrange a schedule to visit Latin America. Probably the best time would be during the Brasilia ALPA meeting in July, 1975.

1975-76

Work will continue toward making the Latin American center(s) an autonomous entity within INFIC, capable of performing all of the functions required to collect and process feed data into a useful publication for calculating animal diets.

Data will be collected and processed on a continuing basis. Laboratories will be encouraged to analyze for more essential nutrients and biological data. Standardization of procedure and methodology will be stressed.

Attendance at seminars and workshops by Latin American nutritionists will be encouraged by the Center's staff to put the feed data collected into practice to increase the production of milk, meat, eggs and fiber.

A trip will need to be taken to the "Latin America Center," provided it is established, to help with processing data and to set up computer programs.

Symposium

The first international symposium, entitled "Feed Composition, Animal Nutrient Requirements, and Computerization of Diets," will be held in July or August, 1976 at Utah State University, Logan, Utah. The symposium will be sponsored by the International Network of Feed Information Centers, the National Academy of Sciences Animal Nutrition Committee, and the International Feedstuffs Institute, Utah State University, Logan, Utah.

The purpose of this symposium will be to direct attention to the problems facing the world in human food production, the work currently in progress to alleviate this problem, the contribution of animal products to the total food resource, and ways to increase animal food products by improved livestock feeding methods. Discussions will point out methods of collecting, storing and retrieving feed composition data, and determining nutrient biological values specific to animal specie. Demonstrations will illustrate ways these data may be used for formulating diets using the least cost technique.

Internationally known scientists from throughout the world will be invited to participate in these meetings and present their views on the subject matter. Every effort will be made to encourage scientists from the LDCs to participate in the program and partake of the information presented.

1974-75

Budget estimates, speaker schedules, specific subject matter to be presented and exact dates for presentation will be worked out through cooperation with AID, FAO and USU.

Preliminary advertising and contracts with scientists throughout the

world will be instigated. Dates for presentation will be set.

1975-76

Final selection of speakers and subject matter will be accomplished and the symposium held at scheduled time.

Publications

The years 1974-75, 1975-76, and the first half of 1976-77 will be devoted to collecting and processing data, primarily from the Mid East. During the last half of 1976-77, a volume of feed composition data, similar to the one that was published for Latin America, will be published for the Mid East countries.

Hohenheim, in cooperation with FAO and ILCA and presumably with the French laboratory in Paris, will publish a volume on African feeds. The Utah Center will aid Hohenheim in compiling this publication.

Australia has now collected about 4,000 source forms. These need to be processed. If Australia can obtain funds to establish a center, their source forms could be processed and a volume of feed composition data published during the latter half of 1974-76 or in 1976-77. Such a publication may also include data from Southeast Asia and New Zealand. The Utah Center will aid Australia in every way possible to make this publication a reality.

Canada will likely have collected sufficient source forms by 1977 to warrant a publication on Canadian feeds. This will likely be combined with United States (US) data to make up a feed composition table for North America similar to the Atlas of US and Canadian Feed Tables.

Several technical publications will be produced for the scientific literature. Practical publications will be worked up to be distributed to LDCs. These latter publications will be concerned with how to better feed and manage livestock and poultry. A list of publications for 1974 are in Appendix I.

Suggested Travel

1974-75

January: Washington, D.C., to finalize work plan for project; Mid-East as soon as it can be arranged with AID and FAO.

May: London, to meet with International Union of Nutritional Scientists to determine what analyses should be done on feeds; also to Hohenheim, to correlate work in "International System."

July: Brasilia, to attend ALPA meetings to work out details of setting up Latin American Feed Information Center(s).

August: Society of Animal Science Meetings, Fort Collins, Colorado, to meet scientists from various countries.

1975-76

June: visit Australia, Canada, London, France, Germany, FAO, Mid East, ILCA in Ethiopia to correlate the work in the International System.

If the Latin American center becomes a reality, it will be visited to work out procedures to collect and process data. Revision of computer programs will be made where necessary to make them compatible with the computers in South America..

1976-77

Junc: London, Germany, FAO, Mid East, to gather final data and correlate International System for publications.

ILCA: Ethiopia to hold a workshop to demonstrate to LDCs, particularly in the Mid East and Africa on how data can be used to produce more milk, meat, eggs and fiber.

Reports

Ten copies of a semi-annual fiscal administrative report will be made six months from the effective date of the contract (November 15, 1974) and for each succeeding six months' period thereafter. Each report will set forth actual and estimated expenditures and accomplishments to date as well as a work plan for the following 6-month period.

Twenty-five copies of an annual summary report will be made not later than 60 days following the end of each 12 month period beginning with the effective date of the contract (November 15, 1974).

Appendix 1

- Harris, L. E., H. Haendler and L. R. McDowell. International feed nomenclature. Proc. International Symposium on Animal Feeds of Tropical and Sub-tropical Origin. Tropical Products Institute. London, England. 1974.
- McDowell, Lee R., Joe H. Conrad, Jenny E. Thomas, and Lorin E. Harris. Latin American Tables of feed composition. University of Florida, Gainesville. 524 pp. 1974.
- McDowell, Lee R. Joe H. Conrad, Jenny E. Thomas, and Lorin E. Harris. Latin American tables of feed composition, abridged. Univ. of Florida, Gainesville. 69 pp. 1974.
- McDowell, L. R., J. H. Conrad, J. E. Thomas and L. E. Harris. Nutritional Composition of Latin American feeds. Proc. International Symposium on Animal Feeds of Tropical and Sub-tropical Origin. Tropical Products Institute. London, England. 1974.
- McDowell, Lee R., Joe H. Conrad, Jenny E. Thomas, and Lorin E. Harris. 1974. Tablas de Composicion de alimentose de America Latina, abreviada. 93 pp.
- McDowell, Lee R., Joe H. Conrad, Jenny E. Thomas, and Lorin E. Harris. 1974. Tablas de Composicao de Alimentos da America Latina, Univ. Florida, Gainesville, Florida. 86 pp.
- Harris, Lorin E., Leonard C. Kearl, Norris J. Stenquist, John J. Barnard, John E. Butcher, Darwin B. Nielsen, John J. Pierce. Maximizing profits by use of a computer to calculate diets for dairy and beef cattle and sheep. Utah State Univ. Ext. Service Circ. 366. 20 pp. 1974.
- Hansen, R. Gaurth and Lorin E. Harris. Assessing feed quality. Utah Sci. 35(2):58-61. 1974.
- McDowell, Lee R., Joe H. Conrad, Jenny E. Thomas, and Lorin E. Harris. 1974. Nutritional composition of Latin American feed data. Abstract. J. Animal Science. 38:232.
- Harris, L. E., L. C. Kearl and L. R. McDowell. Collection and Dissemination of International Feed Composition Data. Abstract. J. Animal Sci., 39:162. 1974.
- Kearl, L. C., L. E. Harris and J. J. Pierce. International Feed Data. A Tool for Calculating Diets. Abstract. J. Animal Sci. 39:242. 1974.
- McDowell, L. R., J. H. Conrad, J. E. Thomas and L. E. Harris. Latin American Feed Composition Project. Abstract. J. Animal Sci. 39:163. 1974.
- Fonnesbeck, P. V. and L. E. Harris. Determining solvent extract and nutritive lipid. Proc. Western Sect. Amer. Soc. Animal Sci. 25:313-316. 1974.
- Fonnesbeck, P. V. and L. E. Harris. Determining solvent extract and nutritive lipid. Abstract. J. Animal Sci. 38:1342. 1974.

**SUMMARY PROGRESS STATEMENT
ONGOING PROJECTS**

Project # 913-11-130-050

Project Title Improved Information on Feedstuffs for Livestock

Contractor a) Utah State University

b) _____

I. Implementation Progress

The PROP was approved August 1974 and the contract for was negotiated in November. Steps are being taken to establish the International Feed Information Center (INFIC). Contractor has made arrangements with FAO to collaborate in coordinating the work to establish a Progress to Date & Relationship

Outputs
network. West Germany has provided FAO funds (\$46,000) to initiate this work.

The Agenda was received by the Nutrition Committee of National Academy of Sciences. Selected members of Committee have agreed to give scientific papers. Contractor has made contact with CIAT, CAS and FAO to initiate collaborative efforts. FAO is contacting countries in Middle East and working with ILCA to establish a Center with ILCA to serve as a Center for Africa and Middle East.

Contractor has developed proposed Agenda for International Symposium to be held in 1976.

Contractor is projecting travel to

II. Project on Schedule; Life-of-Project Budget Accurate?

Project is behind schedule as originally conceived as project starting for contract was July 1, 1974. Planned activities from later starting date are on target. No anticipated change in budget is expected.

Latin America in June and July to work with CIAT and other institutions in Latin America. Travel is planned to Turkey, Pakistan, Iran and Jordan to work with animal nutritionists who will collaborate with the ILCA Center.

III. Significant Change(s) in Project Proposed?

No significant changes proposed at this juncture.

IV. Role of TA Technical Office; Mondays required

Staff specialist in Livestock Production Division is serving as Project Monitor. This Specialist will also have a role in the Symposium that is planned for 1976.

Projected man-days required to monitor Project in FY 76 is 60. This level of effort includes travel to project site and to selected Centers.

Attachment: PAR dated _____

DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES

1. Cooperating Country INTERREGIONAL 311-20
2. PIO/T No. 931-11-130-050-73-
3. Original or Amendment No.
4. Project/Activity No. and Title 3168624 PD-ACC-501 931-11-130-050 Improved Feed Nutrition Information

DISTRIBUTION

5. Appropriation Symbol 73-11X1023
6.A. Allotment Symbol and Charge 131-31-099-00-72-61
6.B. Funds Allotted for: A.I.D./W Mission
7. Obligation Status Administrative Reservation Implementing Document
8. Funding Period (Mo., Day, Yr.) From 1/1/76 To 10/30/76
9.A. Services to Start (Mo., Day, Yr.) Between 1/1/76 and 5/31/76
9.B. Completion date of Services (Mo., Day, Yr.) 10/30/76

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

10.B. Authorized Agent AID/W

Estimated Financing		(1)	(2)	(3)	(4)
\$1,000=		Previous Total	Increase	Decrease	Total to Date
11. Maximum A.I.D. Financing	A. Dollars		40,000		40,000
	B. U.S.-Owned Local Currency				
12. Cooperating Country Contributions	A. Counterpart				
	B. Other				

13. Mission References

14. Instructions to Authorized Agent
The Contract Office is requested to add \$40,000 to Contract AID/ta-c-1159 with Utah State University. These funds are to be utilized for holding a feed symposium at their campus in July 1976. This feed symposium is a goal listed in the PROP and also in the contract. No funds were allocated in the budget so that these added funds will increase total funds for the project.

Details of the symposium are on the attached sheets with budget table.

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

A. The specifications in the scope of work are technically adequate
TA/AGR, N. Konner Date: 11/14/75
TA/AGR, M. Galli Date: 11/14/75
B. Funds for the services requested are available
TA/PPU, M. Mozynski Date: 12/11/75
C. The scope of work lies within the purview of the initiating and approved Agency Programs
TA/AGR, L. Hesser Date: 11/25/75
D.
TA/PPU, C. Molfetto Date: 12/10/75
E.
TA/AGR, R. Holmes Date: 11/14/75
TA/AGR, K. Brundage Date: 11/14/75
F.
TA/PPU, H.C. Ladenheim Date: 12/10/75

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

Signature and date:

Title:

17. For the Agency for International Development

Signature: John Gunning
Title: Chief, Pro. Division, TA/PPU

18. Date of Signature
12/17/75

INTERNATIONAL FEED SYMPOSIUM

In the PROP of the KPA-5 project - Improved Feed Nutrition Information - the activities include an international symposium on feed nutrition. This networking effort to coordinate inputs and expand the impact of results is also contained in contract AID/ta-c-1159 with Utah State University. No funds were provided in the budget to assist this function. The funds requested here are in addition to the life of project funding as shown in the PROP.

The detailed plans for holding the symposium, reporting proceeding and evaluating results are listed below.

1. Proposal: First International Symposium on Feed Composition, Animal Nutrient Requirements, and Computerization of Diets July 11-16, 1976.
 - a. Background: The Symposium is scheduled to be held July 11-16, 1976 at the International Feedstuffs Institute, Utah State University, Logan, Utah.

The symposium was included in the PROP as one of the outputs under "Objectively Verifiable Indicators". The symposium will be sponsored by the International Network of Feed Information Centers, the National Academy of Sciences Animal Nutrition Committee, and the International Feedstuffs Institute, Utah State University, Logan, Utah.

The symposium is closely keyed to animal nutrition programs sponsored by AID, i.e., The Mineral Deficiency and Toxicity Project, International Network of Feed Information Centers (Infic) Project; International Research Centers Activities at CIAT and ILCA.

In addition, the FAO Feed Information Center, Rome, Italy; Dokumentationsstelle du Universitat, Hohenheim, Stuttgart-Hohenheim, Germany; l'Institut d'Elevage et de Medecine Veterinaire de Pays Tropicoux, Maisons-Alfont, France are keyed to the program to establish INFIC being carried out by Utah State University.

- b. **General Purpose:** The purpose of this symposium will be to direct attention to the nutritional problems relating to animal production, the work currently in progress to alleviate this problem and ways to increase production of animal products by improved livestock feeding methods. Discussions will point out methods of collecting, storing and retrieving feed composition data, and determining nutrient biological values specific to animal species. Demonstrations will illustrate ways these data may be used for formulating diets (rations) using the least cost technique.

The scientific papers that are scheduled to be presented will serve to inform technical personnel about research results concerning utilization of agricultural by-products and other plant materials for animal feeding.

The Symposium will also highlight the utilization of the International Network of Feed Information Centers (INFIC) and further the research-information network concept between research workers in International, Regional, U.S. University Research Institutes and utilization of technology.

- c. **Implementation:** The symposium will be organized and carried out by the International Feedstuffs Institute, Utah State University, Logan, Utah. Co-sponsors will assist in conducting the symposium and supporting scientists who will participate in the meeting to present scientific papers on selected subject matter.

The International Feedstuffs Institute, Utah State University, Logan, Utah will serve as the host institution. Facilities at Utah State will be utilized.

The detailed planning is being conducted by a Planning Committee. Members of this committee are working out details with the chairman. Planning started in June 1975, abstracts of scientific papers are to be submitted for review and manuscripts by February 1, 1976 to allow time for review and publication before the meetings, July 1976.

- d. **Involvement of Regional Bureaus and Other Agencies:** Regional Bureaus were involved in this program during the period TA/AGR was reviewing the PROP with technical personnel. AID review and approval process of TAB PROPs required Regional review and approval by the Research and Development Committee.

Regional Bureaus have been provided copies of the proposed agenda and registration forms for circulation to USAID Missions. (To date 24 scientist from LDCs have indicated an interest in participating in the symposium).

The plan is to have scientists involved from selected LDCs and developed countries. These scientists will be individuals who are collaborating with scientists from Utah State University in collecting, collating, and analyzing feedstuffs that will form the basis for developing nutrient requirements for ruminant animals.

Representatives from FAO, ILCA and CIAT will participate in the proceedings. These institutions will support scientists who will serve as Chairmen, Moderators, Discussants and in presenting scientific papers.

Representatives from Regional Bureaus and A.I.D. Missions will participate directly as discussants, moderators or observers.

- e. Publications Plans: The publication plan is as follows:
 - a. Authors forward abstracts prior to October 1, 1975.
 - b. Planning committee screen and notify authors of acceptance of their abstracts by November 1, 1975.
 - c. Author submit their manuscript by February 1, 1976.
 - d. Manuscript reviewed and published before the symposium convenes in July 1976.
- f. Evaluation: Provisions will be made by TA/AGR technical staff and TA/AGR consultants to evaluate the symposium as to: meeting objectives, mode for transferring scientific information; applicability of information to country situations; performance of AID contractor in carrying out symposium.
- g. Manpower Requirements: Projected manpower requirements call for a consultant to advise the Project Monitor as to relevance of scientific papers and relationship to A.I.D. objectives to improve animal production in the LDCs. Estimated consultant input by TA/AGR monitor is 20 man days. Total projected manpower requirements TA/AGR staff and consultant 35 days.
- h. Project Appraisal Report (PAR): A PAR for this activity will be submitted by September 1, 1976. This PAR will include findings of the evaluation conducted under (f) above.
- i. Utilization:
 - a. Contractor will determine in conjunction with AID by February 1, 1976 what are target audiences for preparation of distribution list.

b. Contractor will develop comprehensive distribution list for target audience, submit to AID for approval by August 30, 1975.

c. Upon receipt of approval, Contractor will distribute proceedings according to distribution lists as soon after publication as practicable, but not later than sixty days.

d. Coordination and whatever technical assistance might be needed for the publication and utilization component of this project will be provided by AID's TA/PPU/EUI office.

BUDGET

International Symposium on Feed Composition

Participation

24 LDC Scientists (estimated \$600.00 Cost of honorarium for preparation and presentation of scientific papers).	\$14,000
International Transportation 15 LDC Scientists (estimated average \$1,000 ea)	15,000
Printing and Publication Services (costs include printing of programs, editing and printing abstracts, printing proceedings).	8,750
Audio-Visual and Graphics and translators	1,500
Postage and Misc. Costs	<u>350</u>
	\$40,000

STATE - A.I.D. - USIA
ROUTING SLIP

DATE
12/17/75

TO:	Name or Title	Orgen. Symbol	Room No.	Bldg.	Initials	Date
1.	Mr. Charles Molfetto	TA/PPU				
2.	Retain in PARTS file					
3.	"Feed Back System" (KPA#5)					
4.						
5.						

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Approval	For Your Information	Note and Return
As Requested	Initial for Clearance	Per Conversation
Comment	Investigate	Prepare Reply
File	Justify	See Me
For Correction	Necessary Action	Signature

REMARKS OR ADDITIONAL ROUTING

Subject: Proposed amendment to Utah State contract AID/ta-G-1159

Ref: TA/PPU (Gunning) memo of December 12, 1975 to SER/CM/COD/TAB (Perelli)

In response to your memorandum, I agree with the issuance of a PIO/T to add additional funds to the subject contract.

In discussions between Mr. K. Jeppson (contracts administrator of Utah State) and Dr. Harri (P.I. of the project) it was ascertained that the present contract does in fact make provision for the one week international symposium which is to be held at Utah State during mid-July 1976. \$15,000 of the total estimated cost of \$4300,000 of the contract has been allocated to this symposium.

Hoever, both Dr. Harris and Mr. Jeppson certify that when

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ROUTING SLIP

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Approval	For Your Information	Note and Return
As Requested	Initial for Clearance	Per Conversation
Comment	Investigate	Prepare Reply
File	Justify	See Me
For Correction	Necessary Action	Signature

REMARKS OR ADDITIONAL ROUTING

when the \$15,000 amount was proposed and agreed to, the symposium contemplated only 10 participants. Because of unanticipated interest in this conference, the numbers of participants which have expressed a desire to attend has increased from 10 to approximately 35.

Thus the additional costs which are required to be added to the contract are needed to support the costs of international travel, per diem and honorarium to the additional 25 participants.

Therefore, it is advised that this office endorses the issuance of the referenced PIO/T. Although an amount of \$40,000 is being proposed to be added, it could well be that the final negotiated amount could be substantially less since many costs in the additional budget appear to have already been included in the original contract amount. These determinations will be made at the time of negotiation of the proposed Amend.

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<i>W. J. ...</i>	235-9137	