

39. CURRENCY INDICATOR:
A. U.S. Dollar A
B. Local Currency
C. Combination
D. Unfunded

40. SUBCONTRACTS:
Is There a Provision
for a Subcontract?
(Contracts only) NO

41. TYPE SERVICE:
A. Training of Participants B
B. Technical Assistance to Host Country
(Program, Project related
except A&E Services)
C. A&E Services
D. Construction
E. Research
F. Technical Services to AID
(other than training; usually
operating expense)
G. Training Service for AID
H. Equipment, Materials,
Supplies, Commodities
I. Translation Service

42. CONTRACT/AGREEMENT SOURCE:
A. U.S. Contractor/Grantee A
B. Non-U.S. Contractor/Grantee
C. Combination of A & B

43. SELECTION PROCEDURES:
A. Formally Advertised M
B. Negotiated Price
Competition, General
Procedure
C. A&E
D. Ed. Inst. and/or Int'l.
Research
E. Collaborative
Assistance
F. Predominant Capability
G. Unsolicited Proposal
H. Procurement to be Per-
formed by the Contractor
in Person
I. Sole Source
J. Impairment of Foreign
Policy Objectives
K. 8(a) Selection
● Grant/Cooperative
Agreement
L. Competitive
M. Noncompetitive
N. Small Business Set Aside
O. Overseas Procuring Activities
P. Institution Building/Strengthening

44. TYPE OF AMERICAN OWNERSHIP:
● Minority G
A. Asian/Pacific Islander
B. Black American
C. American Aleuts or Eskimos
D. American Indian
E. Hispanic
F. Other (Specify) _____
G. Non-Minority

45. LABOR SURPLUS AREA
PREFERENCE: D
● Labor Surplus Area
A. No Preference
B. Tie Bid Preference
C. Total Set Aside
D. Not a Labor Surplus Area
Preference Award

46. Number of Bidders Offering
Items or Services of Foreign
Content: N/A

47. TYPE OF BUSINESS: H
A. Source: Non-U.S. and Used
Outside U.S. & Possessions
B. Source: Non-U.S. and
Possessions (Foreign
Purchases Used Inside U.S.)
(If U.S. Source, complete
C through Q)
C. Firm — Profit Making & PSC's
● Non-Profit Organizations
D. Private Educational
Organizations
E. Hospitals
F. Research Institutions,
Foundations, and
Laboratories
G. Other
● Private Voluntary
Organizations
H. U.S. Registered
I. U.S. Non-Registered
J. Foreign
● State/Local Government
K. Educational Institutions
L. Hospitals
M. Research Organizations
N. Other
O. International Agricultural
Research Organizations
P. Public International
Organizations
Q. U.S. Cooperatives

48. Women Owned
Business? NO

49. TYPE AWARD: H
● Small Business
A. Not Set Aside
B. Partial Set Aside
C. Total Set Aside
D. Personal Service Contract
E. Individual Non-Personal
Service Contract
F. U.S. Government
G. University
H. Other Non-Profit
Organizations
I. Large Businesses



UNITED STATES INTERNATIONAL DEVELOPMENT COOPERATION AGENCY
AGENCY FOR INTERNATIONAL DEVELOPMENT

MISSION TO HAITI

For U.S. MAIL:

USAID / HAITI
Department of State
Washington, D.C. 20520

For INTERNATIONAL MAIL:

USAID / HAITI
P.O. Box 1634
Port-au-Prince, Haiti, W.I.

August 30, 1985

Mr. Ron Angert
HPI Representative
Heifer Project International
P.O. Box 13272 - Delmas
Port-au-Prince

Dear Mr. Angert:

**SUBJECT: Operational Program Grant No. 521.0182-G-00-5044-00
Non-Governmental Support III,
Sub-Project No. 11**

Pursuant to the authority contained in Section 531 of the Foreign Assistance Act of 1961, as amended, the Agency for International Development (hereinafter referred to as "AID") hereby provides to Heifer Project International (hereinafter referred to as "HPI" or "Grantee") the sum of Twenty-One Thousand Dollars (US \$21,000) to provide financial assistance for the purpose of establishing and implementing a research program to: (1) determine by serum and hair analysis and by associated forage and soil analysis if selected vitamins and minerals are deficient in cattle and goats in the Artibonite Valley of Haiti, and (2) develop a vitamin-mineral supplement to correct present or potential vitamin-mineral deficiencies in these cattle and goats. The program purpose is more fully described in Attachment II, entitled "Program Description".

This Operational Program Grant is effective and obligation is made as of the date of this letter and shall apply to commitments made by the Grantee in furtherance of program objectives through the estimated completion date of October 31, 1986.

This Operational Program Grant is made to the Grantee on condition that the funds will be administered in accordance with the terms and conditions as set forth in Attachment 1, the Schedule; Attachment 2, the Program Description; Attachment 3, the Standard Provisions and Alterations dated 11/84; and Attachment 4, Assurance of Compliance; which have been agreed to by your organization.

Please sign the original and seven (7) copies of this letter to acknowledge your acceptance of this Operational Program Grant, and return the original and six (6) copies to this office.

Sincerely yours,


Jerome T. French
Mission Director
USAID/Haiti

ACKNOWLEDGED:

By: Ronald R. Laguerre

Date: 9/9/85

Attachments:

1. Schedule
2. Program Description
3. Standard Provisions and Alterations dated 11/84
4. Assurance of Compliance

Fiscal Data:

Project Number: 521-0182, Sub-project No. 11
Appropriation: 72-1151037
Allowance: LESA-85-25521-KG13
Total Grant Amount: \$21,000
Amount Obligated: \$21,000
PIO/T No.: 521-0182-3- 50136
Funds Available: 100k OB 8/30
Date:

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SCHEDULE

A. Period of Agreement

1. The effective date of this Operational Program Grant (OPG) is the signature date by the Agreement Officer as shown on the cover letter and the estimated completion date is October 31, 1986.
2. Funds obligated hereunder are available for program expenditures from the effective date of this Agreement until the estimated completion date.

B. Amount of Agreement and Payment

1. The total cost of the Operational Program Grant is \$21,000 as shown in "C" below, "Financial Plan".
2. Payment will be made to the Grantee in accordance with procedures set forth in Attachment 3 (Alterations) 7A entitled "Payment-Letter of Credit".

C. Financial Plan

1. The following is the Financial Plan for this Agreement. Revision to this plan shall be made in accordance with the Standard Provision entitled "Revision of Financial Plans":

<u>Cost Element</u>	<u>Obligated Amount</u>
a. Technical Assistance	\$ 7,000
b. Materials and supplies, postage, freezer space rental	1,173
c. Travel (2 round trips, Haiti/Virginia/Haiti)	1,500
d. Sample analysis	
- hair and serum, 400 X \$15/sample	6,000
- forage, 150 X \$5/sample	750
- soil, 50 X \$5/sample	250
e. Equipment - Portable centrifuge	400
f. Overhead	<u>3,927</u>

Total AID Contribution for this Agreement: \$21,000 ✓

Total Other Contributions: \$5,400

2. The Grantee may not exceed the obligated amount set forth above, nor may the Grantee adjust the cost for any individual line item by more than 15% of such line item, unless prior written approval is provided by AID.

D. Condition Precedent to Disbursement

Except as AID may otherwise agree in writing, prior to any disbursement or the issuance of any commitment documents under the Operational Program Grant, the Grantee shall demonstrate, in form and substance satisfactory to AID, evidence of an accounting system satisfactory to AID to be used in the management of AID funds.

E. Reporting

1. The Grantee shall submit the following reports:

- a) Technical Reports: The Grantee shall submit Quarterly Status Reports, in triplicate, within 15 days of the completion of each quarter to the Rural Development Officer, USAID/Haiti.
- b) Final Report The Grantee shall submit a final report, in triplicate within 45 days of the expiration of the Agreement to the same address.
- c) Financial Reports: The Grantee shall submit to the AID Controller all reports required under Attachment 3, (Alterations) entitled "Payment" - Letter of Credit".

Technical reports shall contain a narrative of Grantee activities undertaken with respect to the Agreement, quantitative and qualitative assessments of progress, or lack thereof, toward Agreement objectives, discussions of implementation issues and problems that have arisen during the course of the quarter, and an implementation plan for the next quarter.

The final report will synthesize information from prior reports and provide a quantitative and qualitative assessment of the total project as measured against purpose, objectives, and goal.

F. Alterations and Additions to the Standard Provisions

- 1. Alterations in Grant, dated November 1984, are attached and made part of this Operational Program Grant.
- 2. Of the attached Standard Provisions, the following are deleted: 7B, 7C, 10B, 13B and 13C.

G. Authorized Geographic Code

Except as AID may otherwise agree in writing, the authorized Geographic Code for the source and origin and the nationality of services under this Agreement is AID Geographic Code 941 and Haiti.

PROGRAM DESCRIPTION

I. Project Goal and Purposes

The purposes of the project are twofold:

1. To ascertain by serum and hair analysis and by associated forage and soil analysis if selected vitamins and minerals are deficient in cattle and goats in the Artibonite Valley of Haiti.
2. To develop a vitamin-mineral supplement to correct present or potential vitamin-mineral deficiencies in these cattle and goats.

The goal of the project is to improve the reproductive efficiency in cattle and goats in Haiti.

II. General Description

HPI and other organizations have observed poor estrus patterns and low conception rates in Haitian cattle in the Artibonite Valley. The question has been raised as to whether they are a result of chronic or acute mineral deficiencies. As such data has not been found to exist, field work needs to be done to determine the most probable cause or causes and to provide systematically gathered base-line data.

Little objective data has been collected regarding Haitian livestock. A 1984 report (Erickson, J. H. and V.B. Barrett, An Assessment of the Livestock Situation in Haiti, USAID Report dated March 1984) on this subject states that the data "are not simply deficient, they are virtually non-existent." This same report indicates that "animal nutrition is the highest priority in terms of improved production," and states, "poor soil resources in Haiti can be expected to uniformly produce feeds low in phosphorous and possibly trace minerals." Further, it states "very few small holder farmers have access to, or can afford to supply their animals with vitamin-mineral supplements, one observes stunted animals of all livestock classes virtually everywhere in the country." HPI has collectively made similar observations since 1965. More recently, HPI observed cattle in Haiti which responded poorly to estrus regulation by hormonal treatment, had poor conception rates, and a high incidence of abortions or still births. The clinical suspicion is that there could be a nutritional imbalance or deficiency of vitamins and/or minerals, given that their general body condition was normal and there were no overt signs of infectious disease. This project is designed to determine what deficiencies exist and develop a vitamin-mineral supplement to correct these deficiencies.

III. Description of Activities

The specific activities of this Operational Program Grant are as follows:

Fifty head each of cattle and goats (approximately 5 mature males, 35 mature females and 10 neonates) will be randomly identified and selected in the Artibonite Valley in the vicinity of Deschappelles. These animals will be given a physical examination in their farm habitat. Weight will be estimated (chest tape) and stool characteristics and general condition will be noted and recorded. Any lesions or abnormal behavior will be noted. Where possible, a reproductive tract examination will be made. Forty milliliters of blood will be taken, along with 10 grams of hair. The owner and/or caretaker will be asked to describe the feeding and watering practices followed and, where possible, 200-300 gm samples of the representative diet will be collected from the farmer. This examination will be done 4 times, approximately every 90 days.

Five milliliters of blood will be placed in a heparinized tube, the rest in a clotting tube. The heparinized blood will be used to do a hematocrit, a total white blood count, a differential white blood count, and red blood cell count and characterization. Blood smears will be made for new methylene blue staining and possible fluorescent antibody studies.

Serum will be collected and frozen with hair samples being held in paper envelopes and frozen. Feed and soil samples will be placed in waterproof containers and frozen. All feed, soil, sera and hair samples will be evaluated at the Virginia Polytechnic Institute/College of Agriculture laboratories. Forage and soil samples will be evaluated using the standard profiles for each.

Serum phosphorus, calcium, magnesium, iron, zinc, selenium, vitamin A and E will be measured. Serum pepsinogen and total protein will be assayed in the Clinical Pathology Laboratory of the College of Veterinary Medicine.

Data will be evaluated and considered in terms of location, animal species, age, condition, diet and time of year. This data will be used to develop a vitamin-mineral supplement that can be used as a top dressing or in a concentrate mixture. Strategies for its manufacture, distribution and sales will be developed. Feeding trials to test its use efficacy will be planned.

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IV. End of Project Status

At the end of this project, it is anticipated that the following will have been accomplished.

- vitamin/mineral deficiencies will have been determined
- a feed supplement will have been developed to correct deficiencies
- data will exist for the development of strategies to manufacture, distribute, and sell the feed supplement.

V. Financial Plan

1. AID Estimated Total Project Costs

a. Technical Assistance	\$ 7,000
b. Equipment, Portable centrifuge	400
c. Materials and supplies, postage, freezer space rental	1,173
d. Travel (2 roundtrips Haiti/Virginia/Haiti)	1,500
e. Sample analysis	
(1) Hair and serum, 400 X \$15	6,000
(2) Forage, 150 X \$5	750
(3) Soil, 50 X \$5	250
f. Overhead, 23% X Total Direct Costs	<u>3,927</u>
 Total:	 \$21,000 ✓

2. HPI Contribution

HPI will provide the following cash and in-kind support to the project.

In-country transportation	\$1,000
Office equipment and furniture	400
Housing	2,000
Administrative Support/Supervision	<u>2,000</u>
 Total	 \$5,400 ✓