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Food Aid Quality Review Quarterly Technical Report No. 3

October 2009 - December 2009

This publication was produced for review by the United States Agency for International Development.

It was prepared by Tufts University.

Background Information on the Activity

The United States Agency for International Development's (USAID) Food for Peace program awarded a contract to Tufts University's Friedman School of Nutrition Science and Policy in April 2009 to examine the nutritional needs of beneficiary populations across the developing world, and the nutritional quality of commodities currently available to meet those needs.

Scope of the Review

The project involves an assessment of Title II foods mainly intended for use in programs that seek a defined nutrition outcome. The study is reviewing:

- the nutritional value of existing products and their contribution to nutrition-related activities;
- whether these products and activities respond to beneficiary nutritional needs as effectively as they might; and
- how USAID could respond to defined needs better and more cost-effectively through potential changes in product formulation, the range of products provided, and modes of processing, procurement, and distribution to beneficiaries.

Among important issues to be addressed: What guidance does current science provide about the need for inclusion/exclusion, levels and types, of macro and micronutrients in foods provided to highly vulnerable populations? What economic or food technology considerations come into play in seeking to optimize the nutritional content of food aid commodities and get the best nutritional impact for a given level of investment? Should new products or modes of processing, procurement, and distribution be considered for Title II activities? Innovative products will be investigated, as well as the potential for modifications to existing products. Activities to be considered include both non-emergency contexts (mainly maternal and child health and nutrition interventions, Food for Education and PEPFAR-funded programs) and emergency relief.

The review will provide recommendations on, a) how to improve existing products (updating formulations) that are mostly used with defined nutritional outcomes as their goal, b) what kinds of new formulations/products should be considered that would also be used to support clearly-defined nutritional objectives that are not easily met with existing products, c) how product formulations/specifications can be reviewed and updated in a more systematic and on-going manner, and d) steps needed to ensure quality throughout the value-chain. In addition, the review will provide recommendations related to the programming of these products for maximum and most cost-effective nutritional impact.

Reporting for the period October 1 - December 31, 2009**I. Research for the Technical Papers**

The author teams continue to make progress in preparing the three technical background papers. In this quarter, Mr. Jack Bagriansky was added to the team for Papers 1 and 2, to replace Dr. Jack Fiedler, who had to leave the project. An author meeting was held in Boston on October 13 in order to bring Mr. Bagriansky up to date on progress. This was a partial team meeting. A full meeting of the Author Teams, for all three papers, was held on November 16. At these meetings, substantial progress was made in defining the direction of recommendations expected to emerge. The face-to-face interaction that these meetings provide has proven highly productive, and we plan to continue holding such meetings regularly, as often as schedules permit. An agenda for the November 16 meeting is attached as an appendix to this report.

An additional meeting was held in Boston on October 19 with the COTR, Judy Canahuati, the co-PIs, a member of the author team, and the new Research Coordinator, in order to update her on progress and address administrative issues.

Alongside in-person meetings, the authors continue to maintain frequent contact with each other using email, phone, and Skype. Regular contact by email and phone is maintained with the COTR as well. Authors respond regularly to requests for technical input on matters related to Title II food commodities, including product quality issues and possible new formulations or new foods.

The Food Aid Quality Review (FAQR) has made more progress in compiling information from reports, published literature, and other technical papers. We have completed two sets of spreadsheets on the nutrient composition of various FBFs (including various formulations of Corn Soy Blend) – the first comparing the composition of different FBFs, and the second comparing the nutrient composition of each against the DRIs throughout the life cycle. We have developed initial spreadsheets for comparing costs of alternative formulations of individual foods, rations, and mechanisms for specific nutrient delivery. In addition, we completed an initial review of all the MYAPs and SYAPs for Title II programs in countries that are on the priority list (that is, who will continue to be eligible for Title II programs in the future) or have ongoing emergency (SYAP) programs. The results of this review were presented at the FAQR side meeting at the International Congress of Nutrition in Bangkok. These results also provided key input into the development of a closed-ended survey of Title II program managers and logistics/procurement officers. All the PowerPoint presentations from the two meetings at the ICN in Bangkok are available on the FAQR web site (www.foodaidquality.org).

Below is a summary of initial findings and results from the authors' work:

- There is wide variation in the quantities of CSB programmed for each type of target group, and little information in program plans about the rest of the diet consumed by the TG.

- As a result, we must put forth recommendations about composition of CSB based on specific assumptions about the quantities to be consumed and the proportion of dietary requirements to be met by the food.
- We may recommend greater standardization of the uses of FBFs and of quantities to be provided under specific programmatic circumstances.
- We would like to take a broad view of the use of Title II foods (potential and current), and assess the nutritional contributions of the foods in combination, as opposed to simply looking at a single food in isolation.
- It may be wise to develop a single, modified formulation of CSB to meet specified nutritional needs, and to use this formulation of CSB in conjunction with other foods – fortified grains/flours and oil on the one hand, and highly nutrient dense specialized foods (such as lipid-based foods) on the other.
- Fine-tuning of the ration to meet specific nutritional needs of target groups – including children up to 59 months, pregnant/lactating women, and PLWHA – would thus be accomplished by varying the quantities of the FBFs provided and the foods or nutrient supplements provided along with them.
- There are significant gaps in the scientific knowledge about the role of specific nutrients in the onset and progress of the disease in PLWHA, and even greater gaps in evaluation of programmatic interventions for such populations.
- Some specific recommendations about CSB formulation can be made based on work to date.
- There is concern that new products are being introduced into the list of Title II foods without adequate attention to the need for both efficacy and effectiveness trials; additionally, these new products are not always based on the expressed needs of programs in the field.
- A systematic and logical framework for introducing new or modified foods is a high priority. This framework should include expression of need from the field as well as both efficacy and effectiveness trials.
- To the extent that procurement shifts to local and regional sources, uniform standards should be applied for US and international sources; this may involve providing technical assistance and assistance with equipment in some cases.

2. The Consultative Process

2.1 Stakeholder surveys/meetings

During this quarter, we completed development of the closed-ended survey, and developed a list of respondents from each agency in each country. Drafts of the instruments were shared with all authors and with selected members of the Expert Panel for their input. A decision was made to administer the survey using Computer Assisted Telephone Interviewing, and considerable effort was devoted to pretesting and modifying the survey instrument during November and December, with participation of several authors. Because of the unavailability of respondents during the holidays, initiation of interviewing was postponed until January.

Additional in-depth, qualitative interviews were conducted by two of the authors with key senior program and logistics/procurement officers from the World Food Program.

These and previously conducted interviews provided important input into the design of the closed-ended survey instrument as well as insight into choices and uses of food aid products.

Dr Webb held productive discussions with WFP staff in the field in Haiti on the uses of various value-added food aid products, as well as with PVOs that use (and produce) ready-to-use foods, including Meds and Foods for Kids (Cap Haitien) and Zanmi Lasante (Canges). The costs of this trip were covered by a separate budget. The January 2010 earthquake in Haiti has subsequently generated considerable urgent dialogue across international donors and relief agencies on the appropriate forms of nutrition response, including what food products should (or should not) be delivered. Dr. Webb has been interacting almost daily on these issues with professionals in UNICEF, WFP, the IASC emergency nutrition cluster, Partners in Health and the Clinton Foundation. Such discussions, and the operational plans that have emerged, shed light on the rapid evolution of thinking around food aid products where nutrition concerns are foremost. This experience will feed into the team's survey of programmatic issues, as well as informing debate across the FAQR author and expert groups.

Dr. Schlossman and FAQR project staff from Global Food and Nutrition attended the following meetings:

Partnership to Cut Hunger and Poverty in Africa, Congressional Briefing
October 19, 2009

Leslie Koo of GF&N attended the briefing.

- The purpose of this briefing was to launch and discuss the Partnership's 2009 report: "Supporting Africa's Strategy for Reducing Rural Poverty." Five panelists gave short presentations of different perspectives related to agriculture and food security in Africa, including priorities of civil society, innovations in technology transfer, Millennium Challenge Corporation compact development, the US Food Security Initiative. The panelists also discussed the different priorities and challenges to achieving food security in Africa.

USDA Local and Regional Purchase, Information Session
October 10, 2009

Nina Schlossman and Stacey Burch of GF&N attended the information session.

- The purpose of the information session by USDA was to provide an overview of the Local and Regional Purchase (LRP) pilot program, obtain feedback, and respond to questions about the application process. Information was also provided on the design and implementation of field-based projects. The results of the LRP pilot program could have a profound impact on the nature of U.S. food aid.

Partnership to Cut Hunger and Poverty in Africa, "Discussion on the Next Steps for the US Food Security Initiative"

December 3, 2009

Leslie Koo of GF&N attended the discussion.

- A panel discussed policy updates related to the FAO World Food Summit, progress on the Comprehensive Africa Agriculture Development Programme (CAADP), and the implementation status of the US Government Food Security Initiative. Progress, challenges and recommendations related to each were discussed. These major current initiatives related to food security will shape the climate of food aid.

Dr. Rosenberg is involved in a parallel project called BOND (Biomarkers in Nutritional Development) that we hope can feed into the FAQR. He has conducted three conference calls, is the chairman of the sub-team on Vitamin B12 and Folate, and will be attending conferences in the coming quarter.

Dr. Wanke held the following meetings in conjunction with preparing the HIV paper:

Meeting with Tim Quick of PEPFAR in Washington, DC
November 22, 2009

- Discussion of the history and current priorities of PEPFAR related to nutrition

Meeting with Dr Baton Osmani, Officer in Charge, Namibia, World Food Program and Francesca Erdelmann, WFO program advisor for HIV/AIDS Regional bureau for Southern, Eastern and Central Africa
December 8, 2009

- Discussion of nutritional needs and programs in Namibia for HIV infected individuals, role of WFP

Meeting with Dennis Weeks, PEPFAR Country Coordinator, Namibia
December 9, 2009

- Role of PEPFAR in nutritional programming in Namibia

2.2 Meetings organized and presentations.

- Two side-meetings were held for interested stakeholders in conjunction with the International Conference on Nutrition (ICN) in Bangkok, Oct 4th. These meetings took up a whole day (agendas attached in Annex 1). The morning session focused on programming of Title II foods; with presentations by Dr. Rogers and others; the afternoon session focused on aspects of the quality of fortified, blended foods, with presentations by Dr. Webb and Dr. Schlossman. In total there were three presentations in the morning session and four in the afternoon session (involving WFP and FANTA II); the sessions were attended by a total of 73 participants. The presentations are available on the FAQR website.
- An evening meeting/reception was also organized at ICN on October 8th. All expert panelists and authors were invited for a briefing on recent developments and updates, and the meeting was also open to anyone else interested in mixing with some of those authors and experts present.
- The first meeting of USAID and USDA officials was held in Washington, DC at the offices of Global Food & Nutrition on November 23rd, with representation from key agencies within these departments. The meeting was chaired by Dr.

Webb, and attended by Drs. Rogers, and Schlossman and the COTR, Dr. Canahuati. (See agenda and list of participants in Annex I)

- Follow-up meetings at USDA were held November 24th with Dr. Roger Beachy, newly-appointed Director of the National Institute for Food and Agriculture (formerly CSREES), with Dr. Molly Kretsch (Deputy Administrator of ARS for Nutrition, Food Safety and Health), and with Dr. Frank Flora, also of ARS; with John Findlay and Dave Klurfeld attending by phone. These meetings were attended by the co-PIs, Dr. Schlossman, and the COTR.

2.3 Web-Mediated Outreach.

The website has become active, with 23 documents posted on the public site, 34 uploaded and used in the authors only section, and another 3 posted in the interagency only section. As of December 31st the website had 260 individuals registered. It continues to be difficult to engage busy experts, regardless of their genuine interests. It has become clear that more active interaction via the site should be expected once draft recommendations are posted.

3. Administrative and Budget Issues

3.1 Staffing

- An overall research coordinator supporting the PIs was recruited and started work in mid-October. She is providing administrative assistance and support for the web site, event planning, and travel. She has also taken a lead role in developing the closed-ended survey and is providing research support to the author team for Paper 2.
- Global Food and Nutrition contracted with an expert to develop a detailed description of current procedures for approval of Title II foods, to be used as input into future recommendations concerning these processes.

3.2 Budget and Timeline

There have been some modifications in the timeline for the project since the revised timeline was sent in October. The first Expert Panel and Authors joint meeting will be held in April, and the EP will receive summaries of the conclusions and recommendations anticipated for each paper, and drafts of papers where available, prior to the meeting. This meeting will provide a space for EP input and critique of paper recommendations before formal drafts are due. To allow for incorporation of EP input, and to allow for the inclusion of survey results into Paper 2, the first drafts of the completed papers will be available in early May, with revised drafts anticipated in late May. This revised schedule of deliverables will not delay initiation of work on the Synthesis Paper, planned for June 2010 (see Annex II for revised timeline).

We are scheduling more face-to-face meetings of the Author Teams than originally anticipated; so far, we are remaining within the amount originally budgeted for meetings, including Stakeholder meetings, USDA/USAID meetings, and author meetings.

The co-PIs and author team leaders continue to devote a level of effort to this project well above that anticipated in the original design of the project for reasons cited in earlier reports. We recommend an overall budget review in the coming months.

4. Plans for the coming quarter (January – March 2010)

- The closed-ended survey of Title II program managers and logistics/procurement officers will start in early January, after completion of pretesting and modification of the survey instrument. All 52 interviews should be completed before the end of March.
- Qualitative interviews with senior program and logistics staff within the PVOs will continue in this quarter.
- An Author Meeting is planned in Boston in early January.
- A meeting of the authors for Paper I is planned in Boston in mid-February.
- Preliminary recommendations for each of the three papers will be prepared in March, in time for discussion at the Expert Panel meeting currently planned for April.
- Costing of alternative products emerging from the research for Paper I should be available in this quarter. Costing of alternative program options will be conducted after results on programming issues from the stakeholder surveys (both qualitative and closed-ended) have been compiled.
- A second meeting of USAID/USDA officials will be held during this coming quarter.
- Dr. Webb will attend a WHO-sponsored invitational meeting in Geneva on the management of mild/moderate malnutrition, scheduled for February 23-26.
- Dr. Webb and Dr. Rogers along with Dr. Sadler will travel to Ethiopia on a separate budget, and will take the opportunity to meet with key stakeholders, with a particular focus on programs using food in the context of HIV programming.
- We will submit a formal proposal for a Symposium on the results of the FAQR to be held at the 2011 Experimental Biology meeting. Symposium proposals are due in March.

Annex I: Meeting Agendas**Food Aid Quality Review
Stakeholder Meetings at the International Congress of Nutrition**

Sunday, October 4, 2009 • 9:00am-3:30pm
Windsor Suites Hotel, Bangkok, Morakot Room 2

Agenda

9:00 am – 12:00 noon

Programming Food for Nutrition Objectives

This session will draw on the collective experience of participants to answer the following questions.

- What are the current and potential contributions of fortified blended foods (FBFs) such as CSB/WSB in Title II food assistance programs, in the context of donated food, to meeting their nutritional goals with respect to their varying target groups?
- What is known about the specific uses of FBFs by beneficiaries in emergency and non-emergency settings? (dietary context, methods of preparation, intra-household allocation, complementary nutrition education, consumption/sale/barter)
- What are the most appropriate uses for these foods and to which beneficiary groups should they be targeted?
- What are the logistical challenges of programming Title II food, and what are the potential challenges and benefits of alternative procurement and processing methods?

Opening Presentations (max. 10 mins. each)

1. Bea Rogers: Introduction and key issues
2. Tina van den Briel: WFP's perspectives on the use of food for nutrition objectives
3. Gilles Bergeron: Advice from FANTA on programming food for nutrition objectives
4. Bea Rogers: Summary of program reviews to date; implications and emerging issues for programming of FBFs and other foods.

Open discussion: Suggested topics to be covered, in addition to questions listed above:

- How should nutritional effectiveness of FBFs and of food assistance programs be defined and measured?
- What is known about dietary context and food provisioning? About beneficiaries' uses?
- Should the programming of FBFs be standardized (ration size; target groups; complementary services, complementary foods)? Examples:
 - Preparation with/without fortified oil, methods of cooking.
 - Need for education of beneficiaries regarding preparation, intra-household allocation
 - Preventive versus therapeutic uses

- Possibility of tailoring programs based on the availability of other foods (from food aid or from the market or home production)
- What aspects of programming act as facilitators of or barriers to nutritional effectiveness?
- What are the advantages and challenges of developing special FBFs for particular target groups (e.g., under 2, 2-5, pregnant/lactating, PLHIV and TB and differing levels of nutritional status)
 - Targeting
 - Logistics and management
 - Cost
- What are the advantages and challenges of local and regional procurement?
- What are potential solutions to problems of pipeline breaks, quality control, and spoilage?

1:30 pm – 3:30 pm

45 years of CSB: now what?

Aims of the session:

- Discussion of the continued uses of CSB/WSB (and other fortified blended foods) – to whom, why and how?
- Is it the product(s) or the programming that most influences effectiveness?
- How could the product(s) be improved? Are there industry or technology ‘fixes’ that could make a large impact on CSB/WSB cost or effectiveness?
- What effect does the new focus on RUT/SFs, home fortificants, LBNSs have on the need for efforts to improve or modify CSB/WSB?

Opening Presentations (max. 10 mins. each)

1. Patrick Webb: Introduction, overview of key issues
2. Tina van den Briel with Werner Schultink: WFP and UNICEF new directions in the specifications of FBFs- tailoring to <2s.
3. Nina Schlossman: Trends in use, industry concerns regarding production, distribution and quality control.
4. Gilles Bergeron, speaking for Tony Castleman: FBFs in HIV- and other illness-related programs; research on effectiveness

Open discussion:

Suggested topics to be covered:

- Would a re-tailored CSB/WSB with new levels of micronutrients and macronutrients still have a useful role to play?
- What are the common problems faced by users?
- Relative cost issues, e.g., if the only Title II food available for <2s and pregnant women costs, say, 10 times more than CSB/WSB, how will that affect program design and beneficiary case-load choices?

- Given current programming uses of food for nutrition, should CSB be targeted ONLY to children 2 to 10y and ONLY for prevention (not treatment)? [with something else devised for children <2]
- Does CSB/WSB have a role to play as an easy-to-eat food in HIV/TB programming? If so, would it still need to be changed?
- What are the main elements of CSB/WSB that absolutely require to be changed:
 - Levels of micronutrients
 - Type/range of micronutrients
 - Low energy density
 - High phytates
 - Processing and production, e.g., extrusion vs other options
- Are there elements of CSB/WSB that absolutely should not be changed?

List of Attendees:

Andreas Bluethner
Andrew Farnum
Barbara MacDonald
David Fish
Dominic Schofield
Elbia Galo
Erika Wagner
Hector Cori
Helen Lamphere
Irv Rosenberg
Jennifer Marcy
KD Ladd
Lindsay Allen
Mamane Zeilani
Mark Phelan
Mary Lung'aho
Ram Chaudhari
Stephane Doyon
Tanachart Ralsiripong

Bridget Aidam
Rebecca Egan
Tom Schaezel
Ian Darnton-Hill
Geoff Smith
Veronique Lagrange
Hector Cori
Peggy Papatkakis
Caroline Wilkinson
Kathryn Dewey
Richard Hurrell
Marika Ferrari
Francoise Chome
Laura Rossi
Daniel Raiten
Omar Taha

Not in Attendance:

Kate Sadler
Gloria Tosi
Dora Panagides
Alicia Greenfield
Quentin Johnson
Ellen Levinson
Romain Kenfack
Bert Garza
Elena Azzini
Fred Grant

**Food Aid Quality Review
Authors Meeting**

November 16, 2009 • 9:30am-4:30pm
Friedman School of Nutrition, Boston, Sackler Room 218

Agenda

- | | |
|--------------|--|
| 9:00-9:30am | Coffee/Tea, Light Refreshments |
| 9:30-12:00pm | Papers 1&2: <ul style="list-style-type: none">- Update outlines (sections)- Present where you are on your timeline- Specify target dates (handout: updated timeline)- Discuss findings and recommendations thus far- Identify any gaps |
| 12:00-1:00pm | Lunch |
| 1:00-3:30pm | Paper 3 (HIV) <ul style="list-style-type: none">- Update outlines (sections)- Present where you are on your timeline- Specify target dates- Discuss findings and recommendations thus far- Identify any gaps |
| 3:30-3:45pm | Break |
| 3:45-4:30pm | Next steps, General Sharing, Upcoming Events, Travel/Conference Plans |

Tufts Food Aid Quality Review USAID-USDA Meeting

Monday, November 23, 2009 • 1:30-4:30pm
Offices of Global Food and Nutrition, Washington, D.C.

Agenda

12:30-1:30pm	Light lunch
1:30-3:00pm	<p>Introductions: Patrick Webb, Beatrice Rogers, Nina Schlossman, and Mary Chambliss, and participants</p> <p>Objectives of the meeting</p> <p>Background to the FAQ Review</p> <p>Introductions by agency and brief presentations of related activities (10 minutes each)</p>
3:00-3:15pm	Coffee break
3:15-4:30pm	<p>Open Q&A</p> <p>Solicit input on FAQ Review research materials</p> <p>Identify next steps</p> <p>Set up inter-agency working group</p>

List of Attendees (including side meetings):

Beatrice Rogers	Susan Anthony
Patrick Webb	Talari Jude
Nina Schlossman	Tim Reaman
Mary Chambliss	Tracy Thoman
Pat Sheikh	Roger Beachy
Dale Skoric	Molly Kretsch
Dean Jensen	Leslie Koo
Eunyong Chung	Amelia Reese
Judy Canahuati	Lisa Bridges
Sylvia Moore	
Ron Croushorn	
Ross Kremer	
Sandra Wood	
Steve Miteff	

Not in Attendance:

Frances Davidson
James (Jim) Monahan
Jeff Borns
Jon Brause
Jonathan Dworken
Juli Majernik
Laura Bix
Mark Phelan
Keith Adams
Amy Harding

Annex II: Revised Timeline (truncated)

**Food Aid Quality Review
Timeline October 2009-June 2011 (revised January 2010)**

Work Plan and Project Deliverables				
Year; Project Month	Month	Project Activity	Meetings	Deliverables
7	October	<ul style="list-style-type: none"> • Post summaries of program documents on website (MYAPs, SYAPS) • Speak with HIV stakeholders and post on website • Conduct research for papers 1, 2, HIV 3 	<ul style="list-style-type: none"> • International Congress of Nutrition: Bangkok, Thailand 	<ul style="list-style-type: none"> • Monthly contact call • Agenda for ICN Side Meeting • Quarterly Technical Report; Quarterly Financial Report
8	November	<ul style="list-style-type: none"> • Conduct research for papers 1, 2, HIV 3 • Obtain IRB qualitative approval for surveys • Develop and pretest surveys • First mailing of survey invitation • Track survey invitation responses • Develop qualitative interview guide for HIV and other stakeholders • Continue HIV qualitative interviews 	<ul style="list-style-type: none"> • Authors Meeting • First joint meeting of USAID/USDA key officials: Washington, D.C. 	<ul style="list-style-type: none"> • Monthly contact call
9	December	<ul style="list-style-type: none"> • Conduct research for Papers 1, 2, HIV 3 • Send out survey reminders and begin scheduling survey phone calls 		<ul style="list-style-type: none"> • Monthly contact call • Finalized closed-ended survey instruments

Work Plan and Project Deliverables				
Year; Project Month	Month	Project Activity	Meetings	Deliverables
2010 10	Jan 2010	<ul style="list-style-type: none"> • Work on preliminary recommendations for Papers 1, 2, HIV 3 • Pre-test survey • Send out survey reminders and continue scheduling survey phone calls • Conduct survey phone calls 	<ul style="list-style-type: none"> • Authors Meeting 	<ul style="list-style-type: none"> • Quarterly Technical Report; Quarterly Financial Report • Monthly contact call
11	Feb 2010	<ul style="list-style-type: none"> • Work on preliminary recommendations for Papers 1, 2, HIV 3 • Third reminder emailed to survey participants • Survey phone calls continue • Begin work on Symposium Proposal to present FAQR findings at Experimental Biology Conference 2011 (EB2011) 	<ul style="list-style-type: none"> • Face-to-face meeting with Industry and Operational stakeholders • Joint USDA/USAID working group meeting • WHO-sponsored invitational meeting in Geneva on the management of mild/moderate malnutrition 	<ul style="list-style-type: none"> • Preliminary recommendations for Papers 1, 2, HIV 3
12	Mar 2010	<ul style="list-style-type: none"> • Conclude survey phone calls • Compile survey results • Incorporate survey results into draft of Paper 2 • Submit Symposium Proposal for EB2011 • Ready drafts of papers 1, 2, HIV 3 for presentation to Expert Panel • Post Drafts of papers 1, 2, HIV 3 on website for comment 	<ul style="list-style-type: none"> • Food Aid Consultative Group: presentation of preliminary conclusions of 1, 2 and HIV 3; get input for Paper 4 (Synthesis) 	<ul style="list-style-type: none"> • Monthly contact call • Drafts of papers 1, 2, HIV 3

Work Plan and Project Deliverables				
Year; Project Month	Month	Project Activity	Meetings	Deliverables
13	Apr 2010	<ul style="list-style-type: none"> Identify key experts to read & review papers Present papers 1, 2, HIV 3 to Expert Panel Incorporate feedback from Expert Panel on papers 1, 2, HIV 3 	<ul style="list-style-type: none"> First Expert Panel and Author Team Joint Meeting Joint meeting of USAID/USDA in Washington or in Kansas City, KS Side Meeting at Experimental Biology: Anaheim, CA 	<ul style="list-style-type: none"> Quarterly Technical Report; Quarterly Financial Report Monthly contact call Agenda for side meeting for EB2010
14	May 2010	<ul style="list-style-type: none"> Complete Drafts Papers 1, 2 HIV 3 		<ul style="list-style-type: none"> Monthly contact call Complete Drafts: Papers 1, 2 HIV 3
15	Jun 2010	<ul style="list-style-type: none"> Finalize Papers 1, 2, HIV 3 Begin writing Paper 4 (Synthesis) 		<ul style="list-style-type: none"> Quarterly Technical Report; Quarterly Financial Report Monthly contact call
16	Jul 2010	<ul style="list-style-type: none"> Begin preparation for Final Report Draft of Paper 4 (Synthesis) sent to Expert Panel and COTR for feedback; post on website 	<ul style="list-style-type: none"> Joint meeting of USAID/USDA officials: Washington, D.C. (Prep for final report) 	<ul style="list-style-type: none"> Monthly contact call Final Papers 1, 2, HIV 3
17	Aug 2010	<ul style="list-style-type: none"> Incorporate feedback on Paper 4 (Synthesis) 	<ul style="list-style-type: none"> Annual Food Aid Donors Conference, Kansas City August 2-4. 	<ul style="list-style-type: none"> Monthly contact call Draft of Paper 4 (Synthesis)
18	Sept 2010	<ul style="list-style-type: none"> Begin preparation of project descriptions for follow-on projects and studies Finalize Paper 4 (Synthesis) 	<ul style="list-style-type: none"> Second Joint Expert Panel and Author Team meeting 	<ul style="list-style-type: none"> Quarterly Technical Report; Quarterly Financial Report Monthly contact call Submit Paper 4 (Synthesis) to USAID

Work Plan and Project Deliverables				
Year; Project Month	Month	Project Activity	Meetings	Deliverables
19	Oct 2010	<ul style="list-style-type: none"> Initial work on follow-on projects and studies Write Final Report 	<ul style="list-style-type: none"> Food Aid Consultative Group presentation of Paper 4 (Synthesis) Advocacy Meeting (to disseminate advocacy process) UNSCN meeting: Bangkok, Thailand 	<ul style="list-style-type: none"> Monthly contact call
20	Nov 2010	<ul style="list-style-type: none"> Write Final Report: Draft ready for comment 	<ul style="list-style-type: none"> Fourth meeting of USAID/USDA in Washington to discuss contents of Final Report Second Industry and Operational stakeholder meetings ADA FNCE meeting: Boston, MA (HIV/AIDS symposium) 	<ul style="list-style-type: none"> Monthly contact call Draft Final Report for comment
21	Dec 2010	<ul style="list-style-type: none"> Incorporate stakeholder input and other feedback into Final Report Complete Final Report Begin to formulate formal proposals for follow-on projects doing new product development and testing 		<ul style="list-style-type: none"> Final Report Quarterly Technical Report; Quarterly Financial Report Monthly contact call
2011 22	<i>Jan 2011</i>	<ul style="list-style-type: none"> Prepare proposals for follow-on projects and studies 	<ul style="list-style-type: none"> Food Aid Consultative Group: presentation of Final Report conclusions 	<ul style="list-style-type: none"> Project proposals Monthly contact call

Work Plan and Project Deliverables				
Year; Project Month	Month	Project Activity	Meetings	Deliverables
23	<i>Feb 2011</i>	<ul style="list-style-type: none"> • Meetings with stakeholders, follow up • Plan for follow up work: new commodities, bioavailability studies, field tests, etc. • Project proposals 	<ul style="list-style-type: none"> • HIV/AIDS Conference on Retroviruses and Opportunistic Infections (CROI): run symposium; disseminate results 	<ul style="list-style-type: none"> • Monthly contact call • Prepare for CROI symposium • Submit proposals to USAID
24	<i>Mar 2011</i>	<ul style="list-style-type: none"> • Meetings with stakeholders, follow up • Planning for follow up work: new commodities, bioavailability studies, field tests, etc. 		<ul style="list-style-type: none"> • Quarterly Technical Report; Quarterly Financial Report • Monthly contact call
Future Activities	<i>April 2011</i> <i>June 2011</i>		<ul style="list-style-type: none"> • Symposium at Experimental Biology 2011 • “FAQR Launch Meeting,” Feinstein International Center, organized by IHSA, Tufts University 	