

PD-ABS-248

104905

FINAL TECHNICAL REPORT

TITLE: Project in Support of the Program of Science and Technology Cooperation
(PSTC) and the U.S. - Israel Cooperative Development Research Program (CDR)
Agency for International Development

September 30, 1993 through February 14, 1998

Prime Contract No: HRN-5600-C-0-3034
Small Business Administration
7400 Blanco Road, Suite 200
San Antonio, Texas

8(a) Subcontractor: METRICA, Inc.
10010 San Pedro, Suite 400
San Antonio, Texas 78216

Project Offices:
G/HCD/PP Sept. 30, 1993 -Sept. 30, 1996
EG/AFS Sept. 30, 1996-Feb. 14, 1998

Prepared by:
Metrica, Inc.
March 31, 1999

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March 31, 1999

The Agency for International Development signed a three-year 8(a) contract with the Small Business Administration (SBA) on September 30, 1993 to furnish supplies and services to the Office of Research, Bureau for Research and Development (R&D/R) in support of the Program of Science and Technology Cooperation (PSTC) and the U.S. - Israel Cooperative Development Research Program (CDR). The SBA subcontracted with Metrica, Inc., which at the time was an 8(a) firm, to implement the contract.

The contract was extended for one year until September 29, 1997, and was later extended twice for short periods of time to complete activities that were underway. The ending date for the contract was February 14, 1998.

This report is required under Section C of the contract and covers the entire period of the Contract from September 30, 1993 to February 14, 1998.

Purpose of the Contract

The purpose of the contract was to provide/perform the definite quantity of services (level of effort) and submit/deliver the definite quantity of supplies necessary to provide the Office of Research of the Bureau of Research and Development (RD/R) with services in support of the Program of Science and Technology Cooperation (PSTC), and the U.S. - Israel Cooperative Development Research Program (CDR). Metrica was to provide assistance in the receipt and review of research proposals and in the financial management of sub-grants awarded under the two programs until the sub-grants were completed. Metrica was also responsible for managing the flow and storage of information on databases and in files for the programs.

The contract was transferred from the Office of Research along with the two programs to the Office of Agriculture and Food Security (ASF) in Bureau of Research and Development at the beginning of Fiscal Year 1998.

Description of Programs

The USAID Office of Research was responsible for developing and managing the two international research grants programs at the beginning of the contract period. In both programs, investigators from developing countries (jointly with investigators from Israel in the CDC Program) were invited to submit proposals for funding in areas of interest to the USAID development program. Panels of external scientists and experts from universities, government agencies, non-profit foundations and the private sector reviewed the research proposals. Selected research proposals from those recommended by the panels to USAID program managers were funded during each annual program cycle. The PSTC grants were valued at less than \$150,000 while the CDR grants were for amounts less than \$200,000.

Metrica assisted in the management and administration of the review and selection process and in the financial management of the funded proposals. In addition to Metrica's support, the Board on Science and Technology in Development (BOSTID) at the National Academy of Sciences (NAS)/National Research Council (NRC), under a separate Cooperative Agreement, provided technical review of progress reports on funded research activities, evaluated progress in the research "modules" into which the program was divided, and organized and conducted networking meetings for the researchers.

1. Type of Research:

The PSTC and CDR programs funded innovative, cutting-edge research that very likely would not have been funded under more traditional research or technical assistance programs of USAID. All successful grants were selected competitively through an extensive "peer review" system using highly qualified reviewers who served without pay. Proposals from both programs were evaluated against four criteria: scientific merit, relevance to international development, innovation, and the degree to which research capacity in the host developing country research institution would be strengthened. Thus while the primary objective of the research projects was to produce new knowledge from high quality research that would be useful in programs for developing countries, another objective of the research activities was to develop research capabilities in the host countries.

2. Research Areas:

In the PSTC Program, the developing country researcher worked in one of seven areas or modules:

- biotechnology, immunology
- biotechnology in plant systems
- chemistry for world food needs
- biological control of certain disease vectors
- biomass conversion
- biodiversity
- engineering technologies

In the CDR Program, the researchers worked on research problems in fields where Israeli scientists have a particularly strong competence, such as arid lands crops.

3. Availability and Source of Funding:

Grants to PSTC researchers were funded through a USAID project while CDR grants were funded by the U.S. Department of State. The Department of State also performed financial management of the CDR projects. Up to 40 new PSTC grants and 15 new CDR grants could be funded each year.

4. Results of the Research

The investigators produced some interesting and useful products from their research. At one point, the Office of Research published a listing of research articles and other products of the research programs. In addition, each investigator produced a final report on his research. Both the publications on the research articles and the final reports are available in USAID, in the Center for Development Information and Evaluation, Office of Development Information.

Metrica's Participation

Metrica was the main source of support staff for the PSTC and CDR programs. Metrica was contracted to provide technical, advisory, and support services to the Office of Research in its management of the programs. A contract staff of five persons, conveniently located on a separate floor of the same building as the Office of Research, worked closely with Office of Research personnel to implement the programs. Metrica's staff also developed a close working relationship with cooperating staff of the BOSTID at the National Academy of Sciences. Electronic communication links were established with both the Office of Research and BOSTID, and with the Administrator of the CDR in the American Embassy in Israel.

The program cycles were very similar for the PSTC and CDR programs. Review of proposals and selection and administration of successful proposals, and Metrica's participation in these activities, were done separately for each program, but the steps involved were similar:

1. Preparation for the Program Cycle:

Each program year was preceded by preparatory activities to stimulate submission of preproposals and prepare for the receipt and review of preproposals and proposals.

The staff of R&D/R prepared guidelines for the use of scientists who wanted to submit proposals to the programs. The guidelines for the CDR differed slightly from those for the PSTC. One of the earliest preparatory activities was to send out packages of the preproposal guidelines to contact points in universities and other institutions in target developing countries whose scientists were known to be interested in one or the other of the programs. Individual scientists were sent the guidelines at any time during the year when they were requested. During a typical program cycle, Metrica's staff would send out between 750 and 1000 guidelines to prospective researchers.

Each year, Metrica personnel also sent packages of revised preproposal guidelines to USAID missions in eligible countries as soon as they were available from the RD/R staff.

The list of countries eligible to participate in the programs changed slightly each year. A simple database of eligible countries was developed and maintained in Metrica during the preparations for each cycle .

2. Databases

Several other larger databases were developed by Metrica to provide USAID staff with essential information in the management of the research programs. Metrica staff reviewed established databases for duplicate entries at the beginning of each new program cycle and prepared for the collection and organization of information on new databases during the early part of the cycle.

An extensive effort was required to keep the databases current and to prepare reports from them for the use of R&D/R managers and the different offices of USAID. A primary use of the databases was to track the processing of research preproposals and proposals through the review process and to track the implementation of successful grant applications. In addition, reports prepared by Metrica staff from the databases were used to show how research funds were distributed by country or by field of research, to show the distribution of active research projects by dates of completion, to maintain information on potential reviewers for the proposals, and for several other purposes such as the tracking of payments for vouchers from the researchers. Attachment 1 of this report provides a brief description of each of the databases maintained by Metrica staff.

3. Preproposals:

The research programs were viewed as important sources of research funding in the target countries. Proposals for research far exceeded the availability of funding. While this was a favorable circumstance from the perspective of selectivity and the quality of research that was finally funded, the management of the flow of preproposals and proposals required special efforts. The preparation of a full research proposal by a researcher, as well as its review by USAID, is time consuming and expensive. Since only a few of the proposals received could be funded, it was considered desirable to limit full proposals to those that had a good chance of success. This was the role of the preproposal, a short proposal synopsis in which the basic research idea could be presented and a case could be made generally for doing the research. The decision on funding was based on the preproposal review for the majority of applications received in the programs.

Preproposals, based upon guidelines prepared in the Office of Research, were accepted at any time during the funding cycle. However, only those received prior to November 15 would be considered for funding in the forthcoming fiscal year. Full proposals in this program were generally due in the month of August following the submission of the preproposal.

Each preproposal was entered into a formal database, named PROPOSAL, from where it was tracked throughout the review process. Metrica staff received the preproposals,

dated and assigned reference numbers to them and provided copies to the Office of Research and to BOSTID.

The Office of Research staff, working with post-doctoral AAAS fellows assigned to the Office of Research, and the BOSTID staff, reviewed and identified preproposals which met USAID criteria for funding from those submitted by the researchers. The result of that review was added to a database, named REVIEWS, by a two-member clerical team from Metrica. A permanent file for printed records was created for each preproposal. The file contained a printed copy of the preproposal, review sheets from the Office of Research and BOSTID reviewers, and all correspondence concerning the preproposal.

Letters of invitation to prepare full proposals were mailed to the offerors of successful preproposals during the first part of the calendar year in which the proposal would be funded. Offerors of unsuccessful preproposals were informed of the rejection of their proposal idea.

4. Full Proposals:

Full proposals were due by August 15 of the fiscal year in which they would be funded. Metrica sent out invitations to submit full proposals, and guidelines for preparing full proposals, as soon as possible after the review of the preproposals. As the full proposals were received, care was taken by Metrica personnel to accurately record the date, acknowledge the receipt of the proposal, and provide two copies of each proposal to USAID and BOSTID staff. Two copies of each proposal, in print, were placed in the project files.

The full proposals were prepared with enough detail that they could be evaluated for scientific and methodological soundness. The offerors followed the guidelines provided by the Office of Research to fully explain the scientific principles involved in the research and to fully develop the methodology that would be used.

A new database, or computer file, was established for full proposals for each new review cycle. The database had an entry for each proposal for which a full proposal had been invited. Metrica carefully maintained the computer files.

5. Review Panels

Panels of external scientists from other government agencies, universities, foundations, and private organizations reviewed the full proposals. As many as 10 panels of 10 to 15 persons would meet, usually during October or November, to do the review. A large database of approximately 1,000 scientists was maintained by Metrica in order to identify qualified reviewers in an efficient manner. While the database was an effective means of locating panelists, NAS sources and several other sources were also used to find reviewers. The database was updated after each review cycle to include new reviewers, and to delete reviewers who were no longer available to participate in the program.

Meetings of the panelists were held at NAS/NRC facilities in Georgetown. An example of a Schedule of Panels and the make-up of individual panels is shown in Attachments 2 and 4.

Contacting potential panelists to find the 100 or so experts required for the review was especially labor intensive. During the first years of the contract, personnel in the Office of Research and BOSTID performed this task. Metrica staff assisted in this effort as needed, and, as personnel in the Office of Research became less available for the task, Metrica staff ultimately was assigned the task of setting up a large proportion of the review panels for the meetings.

Panels were designed to have an appropriate mix of expertise for a group of proposals in related subject matter areas. Prospective panelists were contacted and offered an opportunity to participate in the review as unpaid reviewers. One of the 10 to 15 panelists in each panel was designated chairperson and a lead reviewer was named for each proposal. The panelists analyzed and commented on all proposals assigned to the panel, but the lead panelists provided focus and direction to the discussion of individual proposals.

Metrica staff provided written materials to the panelists for guidance in conducting the reviews. Each panelist received a package containing (1) a copy of each full proposal for which the reviewer was a principal reviewer, (2) a copy of a summary of each proposal assigned to the reviewer's panel, (3) a copy of reviewer's instructions, including instructions on grading and scoring proposals, and (4) information on the composition of the panel on which the panelist would serve.

The panel meetings required extensive logistic support both prior to and during the meetings. In addition to providing materials to the reviewers, the Metrica staff responded to telephone requests for information, and generally served as liaison between the reviewers and USAID. The BOSTID staff located meeting rooms at NAS and made arrangements for a lunch to be served in the meeting rooms. The BOSTID staff also arranged for living accommodations for reviewers from out of town. During the meeting, clerical support to answer the telephone, make copies of documents, and generally support the reviewers was provided by Metrica. Follow up support by Metrica's staff was also required after each of the meetings.

The panels reviewed the proposals and gave each a grade using guidelines prepared by the USAID staff. The grades made it possible to rank proposals across panels by their merit for funding. The grades for each full proposal were accompanied by comments from the reviewers. Using the panel's advice, the USAID staff ranked the proposals in order of preference for funding. Some proposals were eligible for immediate funding. Other proposals that were not funded immediately became shelf items for funding when resources became available. Still others could be funded with methodological modifications. Some proposals were rejected outright. Attachment 3 is an example of the summary report Metrica staff provided RD/R staff at the conclusion of the panel reviews.

Projects meeting the criteria for funding were entered into a database for the current program year named OYB DATABASE. Information was assembled on this database that permitted the selection of proposals for funding from among those that were judged worthy of funding.

6. Post Review Activities

Funding decisions were communicated to the offerors as quickly as possible after completion of the review. Each scientist and his collaborators received an individualized form letter containing the decision on his/her proposal. Written comments from the panel reviewers and the USAID and BOSTID reviewers were included in the letter.

The databases for the review cycle were updated to reflect the funding decisions after completion of the review.

A permanent hard copy file was developed for each full proposal that contained all the information from the preproposal and its review, a copy of the full proposal, all correspondence with the investigators or with the involved missions and the decision from the panel on the proposal.

Clearance by the USAID Mission in the country where the research was to take place was required for each funded proposal. Metrica staff prepared a form letter to the Mission Director for the signature of the Program Director and attached any documentation from the review that would facilitate the Mission Director's consideration and approval.

Financial documents were prepared to begin the flow of funds to the successful researchers. After approval by the USAID Program Director, the documents were transmitted to the USAID Financial Office for payment.

At both the preproposal and proposal stages, analyses of the reviews were prepared, in consultation with USAID, to show numbers of preproposals and proposals received, success rates for different modules of research, etc. In most cases, these were discussed with the USAID staff in the Office of Research and any actions that were indicated from the analyses were carried out. An example of these reports is given in Attachment 5.

The last activity associated with the review of full proposals was to send a letter to each reviewer thanking him/her for his assistance. The letters were drafted in Metrica, approved and signed in the Office of Research.

7. Management of the Research Sub-grants

Due dates and receipt of management reports and technical progress reports were scheduled on the database for funded proposals. Metrica staff contacted the researcher when reports became overdue. In addition, as each authorized segment of funding was

requested by individual researchers, Metrica staff confirmed that appropriate deliverables required in the project had been submitted before recommending that new funding be granted. A voucher database was developed to track payment of funding against authorized funding. Metrica staff prepared the financial documents for funding and maintained the voucher database as a financial control on the subgrants.

Metrica staff provided reports to the USAID staff as needed to assess progress in the research program..

Personnel Provided by Metrica, Inc.

Metrica employees formed the core labor group in the receipt and review of some 900 preproposals and proposals each year. One or two rounds of panel reviews by external scientists and experts were held each year. The panels involved the recruitment of reviewers and extensive administrative and logistical support of the panels. As the program matured, approximately 250 subgrants were active at any one time, which required financial and administrative management and frequent attention. The contract successfully carried out all of these activities as described in this report using 31,877.5 hours of offsite labor and 944 hours of onsite labor.

The project was staffed with the following positions:

1. Contract Coordinator:

Throughout the contract, the Contract Coordinator was a retired USAID officer, experienced in the management of USAID projects and with overseas experience in USAID programs. The Contract Coordinator supervised the work of the project staff, interacted with the USAID Director and staff for the program, and made certain that USAID received the services in the contract. The Contract Coordinator negotiated changes in personnel and helped to resolve problems that arose. During the life of the Program, there were three different Contract Coordinators: Frank Campbell, Joseph Beausoleil, and Floyd O'Quinn, each serving in the position for one and one-half to two years.

2. Research Program Analyst:

The Program Analyst was responsible for the computer databases and for directing the clerical staff in updating and maintaining the databases. The Program Analyst examined data from the databases, prepared analyses and reports from the databases for USAID staff and generally supported the program functions of the USAID staff. He/she also prepared technical summaries of subgrants. The Program Analyst also assisted in administering the panel reviews but was more identified with post grant activities. An important function of the Program Analyst was the financial management of the approximately 250 sub-grants that were in existence in between panel reviews. This

person analyzed requirements of individual grants and requested additional funding after determining that all required deliverables had been provided to USAID.

3. Research Operations Analyst :

The Research Operations Analyst was generally responsible for assisting in organizing and administering the research review panels and all tasks closely related to panel activity. This position assisted in the recruitment of reviewers, in supervising the logistics of the panel meetings, and in the follow-up of the panel meetings, including responding to administrative correspondence from sub-grantees, and was responsible for the maintenance of hard copy proposal files. An important function of the position was to support panel members in acquiring all the materials required for an appropriate review of each proposal.

4. Administrative Assistant:

The Administrative Assistant assisted in all administrative activities of the two research programs. The Administrative Assistant participated in planning and budgeting, personnel management, logistics, office management, communications management, and other administrative functions. A secretary position, that was initially authorized and funded, was combined with the Administrative Assistant position and was not used. In addition, one Administrative Assistant worked for several months onsite within the Office of Agriculture and Food Security.

5. Research Grants Clerks:

The Research Grants Clerks were responsible for clerical functions of the two programs. An important duty for these two positions was the inputting of database information into the computer. They also were responsible for filing, and for providing clerical assistance during and after the panel meetings. For example, the Research Clerks answered the telephone, copied materials, distributed materials at the panel meetings, and performed cleanup of the conference room after the meetings.

Metrica provided the project with the following labor hours by position in the contract:

<u>Position</u>	<u>Hours</u>
Contract Coordinator	3,397
Research Program Analyst	8,648.5
Research Operation Analyst	5,274.5
Administrative Assistant	4,186
Research Grants Clerks	<u>11,315.5</u>
TOTAL	32,821.5

End of Project

When the PSTC and CDR Programs were transferred from the Office of Research to the Office of Agriculture and Food Security the permanent hard copy files were relocated to the latter office. At the end of the contract, some of the permanent files, which were duplicates of files in the Office of Agriculture and Food Security were transferred to the BOSTID, the “new contractor,” when Metrica’s responsibilities were also transferred there. Copies of databases and other information sources were also provided to BOSTID. One member of the project staff from Metrica was hired by BOSTID and provided continuity in the review support project in its new location.

ATTACHMENT 1

Databases in the PSTC and CDR Programs

Attachment 1

DATABASES IN THE CDR AND PSTC PROGRAMS

ATTACHMENT 1
Databases Maintained by Metrica

PROPOSALS

This is the first stage of the Data-base filing system for incoming pre-proposals and incoming CAR full proposals.

- Each of the data-base files below represents a review term of one year for pre-proposals as they arrive from the researchers in Israel as well as LDCs. For example this year we will be Receiving CDR18 pre-proposals for review.
- The relevant information on the pre-proposal is logged in as well as the decision to invite a full proposal or drop the pre-proposal from consideration.
- This data-base includes title, the number given to the pre-proposal, full address of principal-investigators and collaborators.

The Data-base files currently existing in the Stage are:

CDR5	CDR15
CDR7	CDR16
CDR8	CDR17
CDR9	CDR18
*	CDR16ADD (addresses)
CDR11	CAR13
CDR12	CAR14
CDR13	CAR15
CDR14	CAR16

*NOTE: There is no CDR10 because there was no review done that year as CDR was temporarily suspended.

REVIEWS

This group of Data-base files represents the second stage ^{ie,} of the proposal stage.

- This data-base is immediately made after the pre-proposal reviews above. Once the pre-proposals are approved inviting a full proposal, they are automatically put into this data-base.
- The actual data information is the same as above. However, it is much more extensive because at this stage the proposals are reviewed by an outside panel of experts. The grade given as well as the USAID grade and decision of approval for possible future funding, reject or resubmit are all included here. The requirement of provisos, if any, are also included.

The Data-base files currently existing in the Stage are:

REVIEW14
REVIEW15
REVIEW16
REVIEW17

OYB DATA-BASE FILES

There is a very important Data-base ~~called~~ for every OYB year. It is replaced by a new one every fiscal year. This is the data-base provided to and used by the project officer to pick the proposals to be funded in the current fiscal year.

- This Data-base includes all of the approved projects meeting the criteria for funding. This would include mission clearance information, whether or not provisos were met, the amount asked for etc.
- Each proposal based upon the grade it has received and meeting all of the funding criteria is given a numerical ordered grade. for example The A's receive a "1", the B+'s "2" etc.
- The project officer then goes through and put's a "y" for mortgaged projects from the previous year and "Y" for proposals he is choosing for new funding this year; or "N" for the proposals he is dropping as well as a " " blank for proposals to be carried over into next year's OYB for possible future funding.
- This is the stage where everything is added up, what projects are to be mortgaged are decided and added up etc. All of the mathematical calculations for the amounts are done in the data base because it has the capability.

The Data-base files currently existing in the Stage are:
OYB97 as well as a copy of the OYB96 for reference.

*It is important to note that the previous year's OYB "OYB96" is kept for one year for general reference until the following year where it will be deleted.

FUNDED DATA-BASE

This is the most important data base. it has over 800 records. It includes all PSTC as well as CDR projects that have been funded.

- As soon as the new projects to be funded are decided upon, they are also transferred to this file.
- This file is greatly used for reference at all times to create reports, to see at a glance which projects are completed and ready for close out, which projects are still active, which projects have No-Cost-Extensions etc.
- This Data-base is constantly updated and managed by all contracting staff as to when the reports are received, whether a No-Cost-Extension was granted or not as well as the new project completion due date.

The Data-base file currently existing in the Stage is: FUNDED

OTHER VERY LARGE IMPORTANT D-BASE FILES

The Data-base files currently existing are:

VOUCHERS: vouchers, voucher amounts, when approved, how much, etc. This information is updated on a regular basis.

PANELIST:

- This data-base contains over 1,000 records. It included up-to-date information on present and former panel members by expertise and field.
- This data base in used to put together a panel of experts for the peer review sessions.

MISSIONS: This data-base is a list of USAID missions around the world. It includes mission mailing address, email, Fax and telephone number. It is updated when missions are closed out.

Attachment 2

**SCHEDULE OF PANEL REVIEWS
(EXAMPLE-FY 1997)**

ATTACHMENT 2

FY 1997 CDR PANEL REVIEW

SCHEDULE OF PANEL MEETINGS
NAS GEORGETOWN FACILITIES
2001 WISCONSIN AVE., NW
(CORNER OF WHITEHAVEN STREET)
WASHINGTON, DC 20418

Tuesday, 15 October 1996

HUMAN HEALTH

Time: 9 A. M.-4 P.M.

Place: NAS/GR118

Chair: Dr. Genevieve Losonsky

USAID Rep.: Dr. Judy Chambers, Kira Mock

BOSTID Rep.: Dr. Maurice Fried, Mark Dafforn

Wednesday, October 16 1996

EXPANDING AGRICULTURAL PRODUCTION

Time: 9 A.M.-4 P.M.

Place: NAS/GR130

Chair: Dr. Miklos Faust

USAID Rep.: Dr. Judy Chambers, Kira Mock

BOSTID Rep.: Dr. Maurice Fried, Mark Dafforn

FY1997 Review Schedule (Cont.)

Monday, October 21 1996

ANIMAL SCIENCE & AQUACULTURE

Time: 9 A.M.-4P.M.

Place: NAS/GR118

Chair: Dr. Ray Gamble

USAID Rep.: Dr. Judy Chambers, Kira Mock

BOSTID Rep.: Dr. Maurice Fried, Mark Dafforn

Tuesday, October 22 1996

PEST MANAGEMENT & PLANT PATHOLOGY

Time: 9A.M.-4P.M.

Place: NAS/GR118

Chair: Dr. Ernest Delfosse

USAID Rep.: Dr. Judy Chambers, Kira Mock

BOSTID Rep.: Dr. Maurice Fried, Mark Dafforn

Wednesday, October 23 1996

ENGINEERING & ENVIRONMENTAL ENGINEERING

Time: 9A.M.-4P.M.

Place: NAS/GR114

Chair: Dr.

USAID Rep.: Dr. Judy Chambers, Kira Mock

BOSTID Rep.: Dr. Maurice Fried, Mark Dafforn

Attachment 3

REPORT ON REVIEW DECISIONS
(Example-FY 1997)

**PANEL:
HUMAN HEALTH PANEL**

NUMBER	RES COUNTR	TITLE	PINSTITUTE	RESEARCHER	RECOMMEN.	GRADE	RANK	USAID	
								DECISION	GRADE
C16-010	Slovakia	Disastrous Organochlorine Pollution: Study of Multiple Effects	IUJ	John Goldsmith	App. W/P (8) DEC (2)	C	4		
C17-019	Kenya	Clinical Trial of Topical Paromomycin Ointment in the Treatment of Cutaneous Leishmaniasis caused by <i>L. Tropica</i> and	BGU	J. El-On	App. W/P (2) Resub (8) DEC (3)	C+	5		
C17-023	Peru	A Survey of Hepatitis C Virus Infection, Replication and Genotypes in Israel and Peru	BGU	Y. Shemer-Avni	App. W/P (10) Resub (1)	C+	2		
C17-048	Uganda	Vesicular Trafficking in <i>Plasmodium falciparum</i> : A Target for Anti-malarial Drug Discovery	IUJ	H. Ginsburg	DEC (4) Resub (8)	C	6		
C17-050	Nigeria	Induction of Nitric Oxide by Malaria Parasite Exoantigen	IUJ	H. Ginsburg	DEC (8) Resub (4)	D+	7		
C17-069	Zimbabwe	Use of PCR Techniques to Optimize the Detection and Identification of Schistosome Cercariae in Natural Water system's	Kuvini Centre	J. Hamburger	App. W/P (12)	B	1		
C17-070	Costa Rica	Isolation, Characterization and Neutralization of Hemorrhagic Toxins from the Venom of Snake <i>Bothrops Asper</i>	Tel-Aviv U.	Michael Ovadia	App. W/P (8) Resub (3)	C	3		

**PANEL:
EXPANDING AGRICULTURAL PRODUCTION**

NUMBER	RES COUNTR	TITLE	PINSTITUTE	RESEARCHER	RECOMMEN.	GRADE	RANK	USAID	
								DECISION	GRADE
C17-004	Morocco	Preservation of Natural Argan (<i>Argania Spinosa</i> L. Skeels) and its Domestication as an Oil Crop	BGU	Yosef Mizrahi	Tentative Approv.	C	8		
C17-014	Nepal	Diagnosis and Prophylaxis Sustain Goat Production in The Hills of Nepal	BGU	A. Allan Degen	App. W/P	B	4		
C17-016	Morocco	<i>Distichlis Spicata</i> (Salt Grass) A New Salt Tolerant Forage	BGU	D. Pasternak	App. W/P	B/B+	3		
C17-039	Kenya	Development of <i>Vernonia Gatamensis</i> Production under Drought Conditions	IUJ	Y. Saranga	Decline	E	11		
C17-043	Morocco	Clonal Selection of Drought-Tolerant Argan and Caper Genotypes for Improved Land Use and Agricultural Productivity	IUJ	Arie Altman	Tentative Approv.	C	9		
C17-046	Mali	Karitea Tree (<i>Butyrospermum Paradoxum</i> (Gaertner) Agroforestry System Management	BGU	A. Benzioni	App. W/P	C	7		
C17-053	Morocco	Domesticated Tetraploid Oats: A New Perspective for Morocco	IUJ	G. Ladizinsky	App. W/P	A-/B+	1		
C17-057	Chile	Use of Salt and Drought Tolerant <i>Prosopis</i> Spp. for Improving Arid Ecosystems and Agriculture	IUJ	Arie Altman	App. W/P	C	6		
C17-061	Madagascar	Biological Insect Control by Extracts from Madagascan Plants	ARO Volcani	E. Lewinsolm	App. W/P	C+	5		
CA16-015	Georgia	Diversity and Practical Use of Higher Basidiomycetes of Georgia	Haifa U.	S.P. Wosset	Decline w/advise	D	10		
CA17-001	Kazakhstan	QTL Mapping of Drought Resistance derived from Wild Barley	Haifa U.	A. Korol	Approve	A/B+	2		

NUMBER	RES COUNTR	TITLE	PINSTITUTE	RESEARCHER	RECOMMEN.	GRADE	RANK	DECISION	USAID
									GRADI
C17-017	Jamaica	Production of Spirulina (Microalgae) as a High Value Feed Additive for Aquaculture	BGU	Avigad Vonshak	Decline	C/C+	4		
C17-026	Zimbabwe	Diagnosis and Prophylaxis of Infectious Polyarthritis in Farmed Crocodiles in Zimbabwe	Kimron	Sharon Levisohn	Decline	D	5		
C17-040	Czech Republic	Developmental Competence by Bovine Oocytes Grown in Vitro	Weizmann Inst.	N. Dekel	App. W/P	B	2		
C17-060	Bangladesh	Developing a Fish Polyculture for Peasant Consumption and Cash Crop	ARO - Volcani	A. Milstein	Approve	A/A-	1		
C17-067	Kenya	Immunity of Conserved Babesia Bigemina Infected Erythrocyte Surface Antigens (ESA1)	Kimron	V. Shkap	Approve	C/C+	3		

**PANEL:
PEST MANAGEMENT & PLANT PATHOLOGY**

NUMBER	RES COUNTR	TITLE	PINSTITUTE	RESEARCHER	RECOMMEN.	GRADE	RANK	DECISION	USAID
									GRADI
CA17-002	Uzbekistan/ Kazakhstan	Novel Bacillus Strains as Environmental Biopesticides	BGU	Y. Margalith	Resubmit	B-	6		
C17-002	Mali	Estimation of Anopheles Gambiae: Potential Habitats and Physiology	HUJ, Hadassah	A. Warburg	App. W/Proviso	A-	4		
C17-005	Nepal	Tolerance and Resistance in Wheat to Septoria Tritici Blotch and Spot Blotch	Tel-Aviv U.	Zahir Eyal	Approve	A	1		
C17-011	Kenya	Development of Transgenic Wheat, Tolerant of the African Armyworm, Spodoptera Exempta, by Introduction of Bacillus	Tel-Aviv U.	B. Sneh	App. W/Proviso	C+	7		
C17-012	Kenya	Towards Implementation of a Sustainable IPM Program for the African Armyworm, Spodoptera Exempta	U. of Haifa	M. Broza	App. W/Proviso	A	2		
C17-020	Kenya	Heat Avoidance: A New Approach for Breeding for Heat Resistance	BGU	S. Mendlinger	App. W/Proviso	C+	9		
C17-032	Kenya	Biological Control of Ticks with Entomopathogenic Nematodes	Kimron	Michael Samish	Approve	A-/B+	3		
C17-062	Hungary	Combined Affect Yosepha of Light-Stress Shalok and Heavy Metals on Agricultural Crops	ARO - Volcani	Y. Shalok	Decline	D	11		
C17-064	Taiwan	Generation of Random Amplified Polymorphic DNA (RAPD) Molecular Markers for Bacterial Wilt Resistance in Tomato and Their Utilization	ARO - Volcani	M. Friedmann	App. W/Proviso	C+	8		
CA16-012	Uzbekistan	Biological Control of Vegetable & Fruit Fungal Diseases by Bacterial Antagonists	HUJ	I. Chet	App. W/Proviso	B	5		
C16-053	Kenya	Resistance of Colletotrichum Kabawae to Benzimidazole and SBI Fungicides	ARO - Volcani	S. Freeman	Decline	C	10		

ENVIRONMENT ENGINEERING & EARTH SCIENCES

NUMBER	RES COUNTR	TITLE	PINSTITUTE	RESEARCHER	RECOMMEN.	GRADE	RANK	DECISION	USAID
									GRADE
C16-017	Poland	Non Destructive Assessment of Life-time for Long-term Aged Components	Technion	S. Usitovsky	App. W/Proviso 7 Decline 4	C	5		
C17-025	Czech Republic	Novel System for Biodegradation of Volatile Organic Compounds Contaminating Ground Water	BGU	J.C. Merchuk	Decline	C-	7		
C17-028	Costa Rica	Multidisciplinary Study of the Pacific Continental Shelf of Costa Rica and Nicaragua	IOLR	Stephen Brenner	Approve	B+	1		
C17-035	Czech Republic	Enhancing of PCB Degradation in the Soil and in the Rhizosphere	Technion	M. Rehhun	App. W/Proviso	B	3		
C17-041	Morocco	Groundwater contaminant Plume Delineation and Site Characterization	BGU	Shaul Sorek	3 App, 5 Dec, 2 Res	C	6		
C17-051	Slovak Republic	Production of Specialty Chemicals Using Environmentally Clean Catalytic Oxidation Processes	IHJ	R. Newmann	App. W/Proviso	B	4		
C17-066	Ethiopia	Combined Interpretation of Seismic and Potential Fields for Groundwater Exploration in Ethiopia	HUJ	Z. Ben-Avraham	App. W/Proviso	B+	2		Tie vote for 3

Attachment 4

**PANEL MEMBERS AND REVIEW ASSIGNMENTS
(Example-FY 1997)**

ATTACHMENT 4
Panel Members and Review Assignments-FY 1997

FY 1997

HUMAN HEALTH

<u>PROPOSAL NO.</u>	<u>REVIEW ASSIGNMENTS</u>
C16-010	Alvares', D'Amato, Miller, Birnbaum*
C16-067**	Kumar', Long, Tsokos, Anderson
C17-019	McCarthy', Carney, Alvarez, D'Amato
C17-023	Hoff', Tsokos, Miller, Seto, Yu
C17-048	Long', Kumar, Losonsky, Sina
C17-050	Kumar', Alvarez, Sina, Long
C17-069	Carney', McCarthy, D'Amato, Hoff, Anderson
C17-070	Barish', Fox, Gold, Losonsky, Hardy*

Time: Tuesday, 15 October 1996 (9A.M.-4P.M.)
Place: NAS GR118
Chair: Dr. Genevieve Losonsky
USAID Rep.: Dr. Harvey Hortik, Kira Mock
BOSTID Rep.: Dr. Judy Bale, Dr. Maurice Fried, Mark Dafforn

'Primary Reviewer
*Mail Reviewer
**Withdrawn

FY 1997

HUMAN HEALTH

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FY 1997 (Cont.)

HUMAN HEALTH

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FY 1997

ANIMAL SCIENCE & AQUACULTURE

PROPOSAL NO.

REVIEW ASSIGNMENTS

C17-017	Sprague, Jenson
C17-026	Ross', Davenport, Gamble, Zarlenga, Gillevet
C17-040	Howard', Williams, Elsasser*, Gwazdauskas*
C17-060	Allen, Jenson, Burke*
C17-067	Gamble', Zarlenga, Howard, Allen

Time: Monday, 21 October 1996 (9A.M.-4P.M.)
Place: NAS GR118
Chair: Dr. Ray Gamble
USAID Rep.: Dr. Judy Chambers, Kira Mock
BOSTID Rep.: Dr. Maurice Fried, Mark Dafforn

*Primary Reviewer

*Mail Reviewer

FY 1997

ANIMAL SCIENCE & AQUACULTURE

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Dr. Ray Gamble
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FY 1997 (cont.)

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FY 1997

Pest Management & Plant Pathology Panel

Proposal:

Reviewers:

CA17-002	Tompkins, Bottrell, Feldlaufer
C17-002	Feldlaufer', Tompkins
C17-005	Frederick', Maas, Meyer
C17-011	Pooler', Bottrell, Callahan
C17-012	Bottrell', Delfosse, Feldlaufer
C17-020	Bunce', Callahan, Wergin, Pooler
C17-032	Delfosse', Tompkins
C17-033**	Tompkins', Bottrell, Feldlaufer
C17-062	Wergin', Bunce, Frederick
C17-064	Callahan', Wergin, Pooler
CA16-012	Meyer', Delfosse, Maas
C16-053	Maas', Meyer, Frederick

Time: Tuesday, 22 October 1996 (9A.M.-4P.M.)
Place: NAS GR118
Chair: Dr. Ernest S. Delfosse
USAID Rep.: Dr. Harvey Hortik, Kira Mock
BOSTID Rep.: Dr. Maurice Fried, Mark Dafforn

**Not received
*Mail reviewer
'Primary reviewer

FY 1997

Pest Management and Plant Pathology Panel

Chairman: Dr. Ernest S. Delfosse

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FY 1997 (Cont.)

Pest Management and Plant Pathology Panel

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Dr. George Tompkins
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Attachment 5

**STATUS OF PROPOSALS REPORT
(Example FY 1997)**

**U.S.-ISRAEL COOPERATIVE DEVELOPMENT
RESEARCH PROGRAM**

STATUS OF PROPOSALS

**PEER REVIEW PANEL
FY 1997**

November 27, 1996

ATTACHMENT 5
Status of Proposals Reports-Example-FY 1997

STATUS OF PROPOSAL FROM PANEL REVIEW

NUMBER	TITLE	PANEL DECISION	GRADE	RESEARCH REGION	RESEARCH COUNTRY	PANEL
C17-017	PRODUCTION OF SPIRULINA (MICROALGAE) AS A HIGH VALUE FEED ADDITIVE FOR AQUACULTURE	DECLINE	C/C+	LAC	JAMAICA	ANIM-SCI-2
C17-026	DIAGNOSIS AND PROPHYLAXIS OF INFECTIOUS POLYARTHRITIS IN FARMED CROCODILES IN ZIMBABWE	DECLINE	D	AFR	ZIMBABWE	ANIM-SCI-2
C17-040	DEVELOPMENTAL COMPETENCE BY BOVINE OOCYTES GROWN IN VITRO	APPR W/ PR B		EE	CZECH REPUBLIC	ANIM-SCI-2
C17-060	DEVELOPING A FISH POLYCULTURE FOR PEASANT CONSUMPTION AND CASH CROP	APPROVE	A/A-	ASIA	BANGLADESH	ANIM-SCI-2
C17-067	IMMUNITY TO CONSERVED BABESIA BIGEMINA INFECTED ERYTHROCYTE SURFACE ANTIGENS (ESA1)	APPROVE	C/C+	AFR	KENYA	ANIM-SCI-2
C17-004	PRESERVATION OF NATURAL ARGAN (ARGANIA SPINOSA L. SKEELS) AND ITS DOMESTICATION AS AN OIL CROP	T. APPROV	C	ANE	MOROCCO	EXP-AGR-PF
C17-014	REJUVENATION OF FORESTS WITH FODDER TREES AND SHRUBS TO SUSTAIN GOAT PRODUCTION IN THE HILLS OF NEPAL	APPR W/PR	B	ASIA	NEPAL	EXP-AGR-PF
C17-016	DISTICHLIS SPICATA (SALT GRASS) A NEW SALT TOLERANT FORAGE	APPROVE	B+	ANE	MOROCCO	EXP-AGR-PF

STATUS OF PROPOSAL FROM PANEL REVIEW

NUMBER	TITLE	PANEL DECISION	GRADE	RESEARCH REGION	RESEARCH COUNTRY	PANEL
C17-039	DEVELOPMENT OF VERNONIA GALAMENSIS PRODUCTION UNDER DROUGHT.....	DECLINE	E	AFR	KENYA	EXP-AGR-P
C17-043	CLONAL SELECTION OF DROUGHT-TOLERANT ARGAN AND CAPER GENOTYPES FOR IMPROVED LAND USE AND AGRICULTURAL PRODUCTIVITY	T. APPROV	C	ANE	MOROCCO	EXP-AGR-P
C17-046	KARITEA TREE (BUTYROSPERMUM PARADOXUM (GAERTNER) AGROFORESTRY SYSTEM MANAGEMENT	APPR W/ PR	C	AFR	MALI	EXP-AGR-P
C17-053	DOMESTICATED TETRAPLOID OATS: A NEW PERSPECTIVE FOR MOROCCO	APPR W/ PR	A-/B+	ANE	MOROCCO	EXP-AGR-P
C17-057	USE OF SALT AND DROUGHT TOLERANT PROSOPIA SPP. FOR IMPROVING ARID ECOSYSTEMS AND AGRICULTURE	APPR W/ PR	C	LAC	CHILE	EXP-AGR-P
C17-061	BIOLOGICAL INSECT CONTROL BY EXTRACTS FROM MADAGASCARIAN PLANTS	APPR W/ PR	C+	AFR	MADAGASCAR	EXP-AGR-P
CA16-015	DIVERSITY AND PRACTICAL USE OF HIGHER BASIDIOMYCETES OF GEORGIA	DECLINE	D	CAR	GEORGIA	EXP-AGR-P
CA17-001	QTL MAPPING OF DROUGHT RESISTANCE DERIVED FROM WILD BARLEY	APPROVE	A/B+	CAR	KAZAKHSTAN	EXP-AGR-P

STATUS OF PROPOSAL FROM PANEL REVIEW

NUMBER	TITLE	PANEL DECISION	GRADE	RESEARCH REGION	RESEARCH COUNTRY	PANEL
C17-025	NOVEL SYSTEM FOR BIODEGRADATION OF VOLATILE ORGANIC COMPOUNDS CONTAMINATING GROUND WATER	DECLINE	C-	EE	CZECH REPUBLIC	GEOL-ENV-E
C17-028	MULTIDISCIPLINARY STUDY OF THE PACIFIC CONTINENTAL SHELF OF COSTA RICA AND NICARAGUA	APPROVE	B+	LAC	COSTA RICA	GEOL-ENV-E
C17-035	ENHANCING OF PCB DEGRADATION IN THE SOIL AND IN THE RHIZOSPHERE	APPR W/ PR B		EE	CZECH REPUBLIC	GEOL-ENV-E
C17-041	GROUNDWATER CONTAMINANT PLUME DELINEATION AND SITE CHARACTERIZATION	AP3DC5RS2	C	ANE	MOROCCO	GEOL-ENV-E
C17-051	PRODUCTION OF SPECIALTY CHEMICALS USING ENVIRONMENTALLY CLEAN CATALYTIC OXIDATION PROCESSES	APPR W/ PR B		EE	SLOVAK REPUBLIC	GEOL-ENV-E
C17-066	COMBINED INTERPRETATION OF SEISMIC AND POTENTIAL FIELDS FOR GROUNDWATER EXPLORATION IN ETHIOPIA	APPR W/ PR B+		AFR	ETHIOPIA	GEOL-ENV-E
C16-017	NON-DESTRUCTIVE ASSESSMENT OF LIFE-TIME OF LONG TERM AGED COMPONENTS	AP7 DEC4	C	EE	POLAND	GEOL-ENV-E

STATUS OF PROPOSAL FROM PANEL REVIEW

NUMBER	TITLE	PANEL DECISION	GRADE	RESEARCH REGION	RESEARCH COUNTRY	PANEL
C17-019	CLINICAL TRIAL OF TOPICAL PAROMOMYCIN OINTMENT IN THE TREATMENT OF CUTANEOUS LEISHMANIASIS CAUSED BY L. TROPICA AND....	AP2RS8RJ3	C+	AFR	KENYA	HUMAN-HEAL
C17-023	A SURVEY OF HEPATITIS C VIRUS INFECTION, REPLICATION AND GENOTYPES IN ISRAEL AND PERU	AP11, RES1	C+	LAC	PERU	HUMAN-HEAL
C17-048	VESICULAR TRAFFICKING IN PLASMODIUM FALCIPARIUM: A TARGET FOR ANTI- MALARIAL DRUG DISCOVERY	RJ4, RS8	C	AFR	UGANDA	HUMAN-HEAL
C17-050	INDUCTION OF NITRIC OXIDE BY MALARIA PARASITE EXOANTIGEN	RJ8, RS4	D+	AFR	NIGERIA	HUMAN-HEAL
C17-070	ISOLATION, CHARACTERIZATION AND NEUTRALIZATION OF HEMORRHAGIC TOXINS FROM THE VENOM OF SNAKE BOTHROPS ASPER	AP8, RES3	C	LAC	COSTA RICA	HUMAN-HEAL
C17-069	USE OF PCR TECHNIQUES TO OPTIMIZE THE DETECTION AND IDENTIFICATION OF SCHISTOSOME CERCARIAE IN NATURAL WATER SYSTEMS.	APPROV	B	AFR	ZIMBABWE	HUMAN-HEAL
C16-010	DISASTROUS ORGANOCHLORINE POLLUTION: STUDY OF MULTIPLE EFFECTS	AP12RJ2RS1	C	EE	SLOVAKIA	HUMAN-HEAL

STATUS OF PROPOSAL FROM PANEL REVIEW

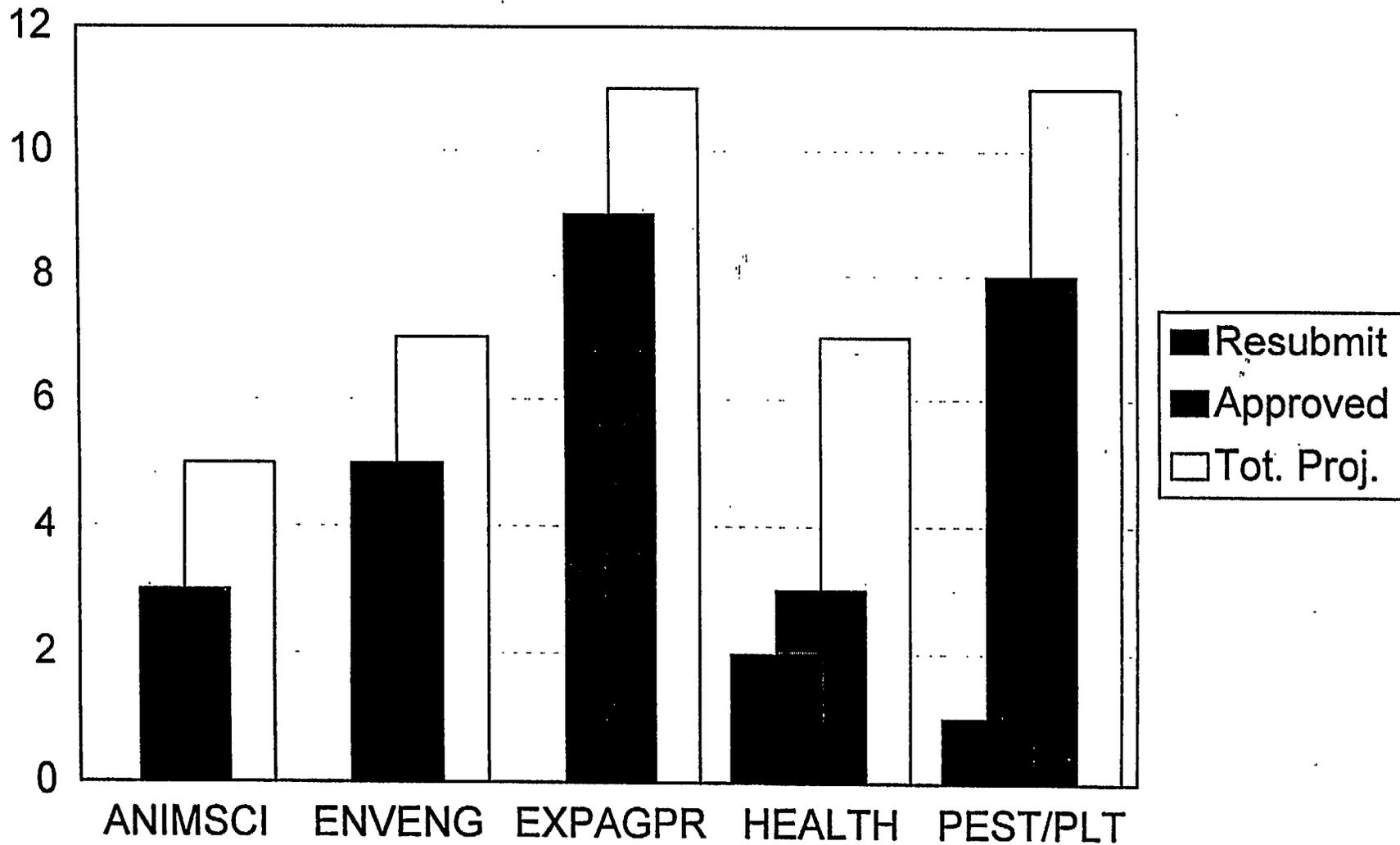
NUMBER	TITLE	PANEL DECISION	GRADE	RESEARCH REGION	RESEARCH COUNTRY	PANEL
C17-002	ESTIVATION OF ANOPHELES GAMBIAE: POTENTIAL HABITATS AND PHYSIOLOGY	APPR W/ PR A-		AFR	MALI	PESTMAN/P
C17-005	TOLERANCE AND RESISTANCE IN WHEAT TO SEPTORIA TRITICI BLOTCH AND SPOT BLOTCH	APPROVE	A	ASIA	NEPAL	PESTMAN/P
C17-011	DEVELOPMENT OF TRANSGENIC WHEAT, TOLERANT TO THE AFRICAN ARMYWORM, SPODOPTERA EXEMPTA, BY INTRODUCTION OF BACILLUS....	APPR W/ PR C+		AFR	KENYA	PESTMAN/P
C17-012	TOWARDS IMPLEMENTATION OF A SUSTAINABLE IPM PROGRAM FOR THE AFRICAN ARMYWORM, SPODOPTERA EXEMPTA	APPR W/ PR A		AFR	KENYA	PESTMAN/P
C17-020	HEAT AVOIDANCE: A NEW APPROACH FOR BREEDING FOR HEAT RESISTANCE	APPR W/ PR C+		AFR	NAIROBI, KENYA	PESTMAN/P
C17-032	BIOLOGICAL CONTROL OF TICKS WITH ENTOMOPATHOGENIC NEMATODES	APPROVE	A-/B+	AFR	KENYA	PESTMAN/P
C17-062	COMBINED AFFECT OF LIGHT-STRESS AND HEAVY METALS ON AGRICULTURAL CROPS	DECLINE	D	EE	HUNGARY	PESTMAN/P

STATUS OF PROPOSAL FROM PANEL REVIEW

NUMBER	TITLE	PANEL DECISION	GRADE	RESEARCH REGION	RESEARCH COUNTRY	PANEL
C17-064	GENERATION OF RANDOM AMPLIFIED POLYMORPHIC DNA (RAPD) MOLECULAR MARKERS FOR BACTERIAL WILT RESISTANCE IN TOMATO AND THEIR UTILIZATION	APPR W/ PR C+		INTER. CENTER	TAIWAN	PESTMAN/P
CA16-012	BIOLOGICAL CONTROL OF VEGETABLE AND FRUIT FUNGAL DISEASES BY BACTERIAL ANTAGONISTS	APPR W/ PR B		CAR	UZBEKISTAN	PESTMAN/P
C16-053	RESISTANCE OF COLLETOTRICHUM KAHAWAE TO BENZIMIDAZOLE AND SBI FUNGICIDES	DECLINE	C	AFR	KENYA	PESTMAN/PI
CA17-002	NOVEL BACILLUS STRAINS AS ENVIRONMENTAL BIOPESTICIDES	RESUBMIT	B-	CAR	UZBEKISTAN, KAZAKHASTAN	PESTMAN/PI

PROJECTS APPROVED

Out of Projects Reviewed

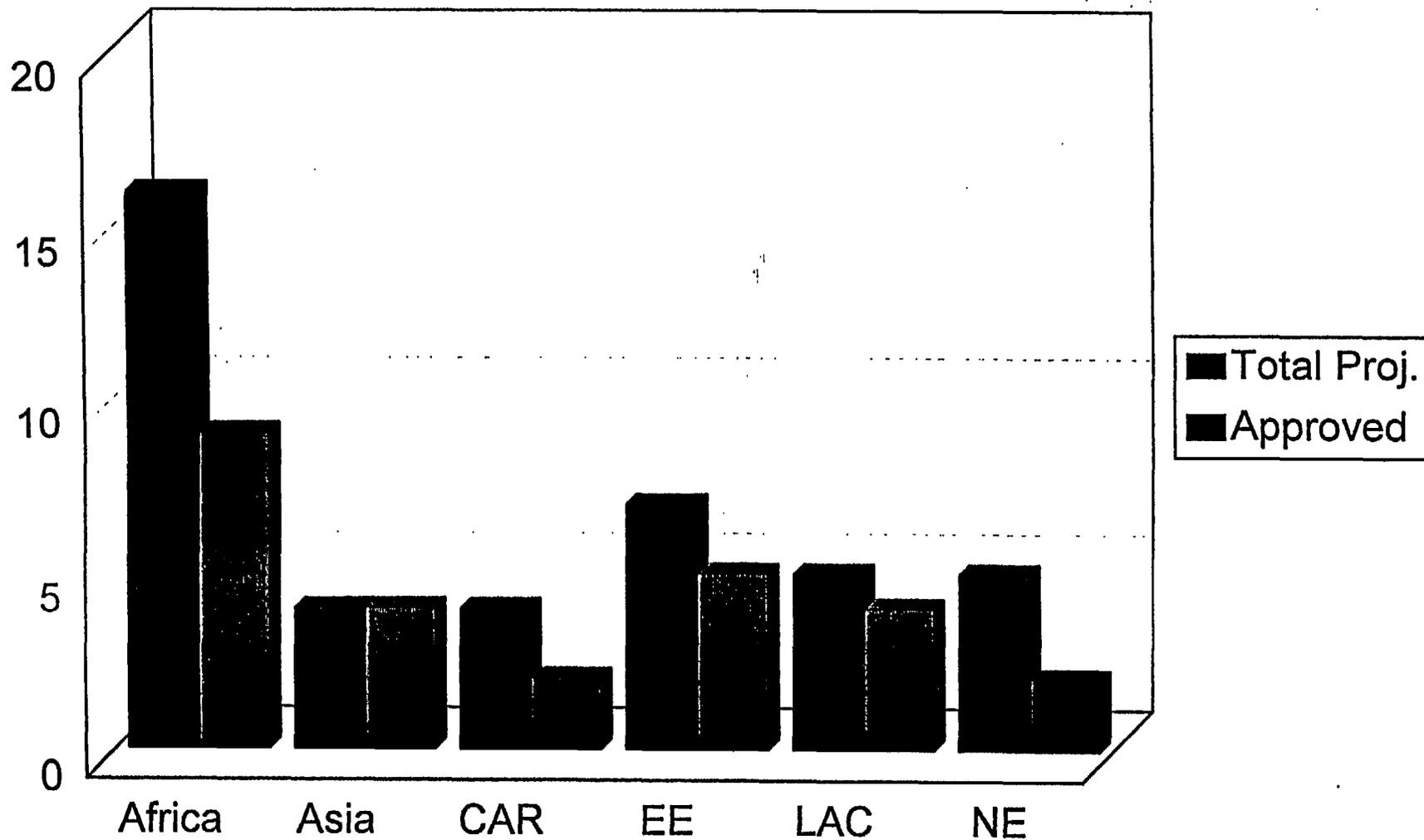


November 26, 1996

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CDR PROPOSALS REVIEWED

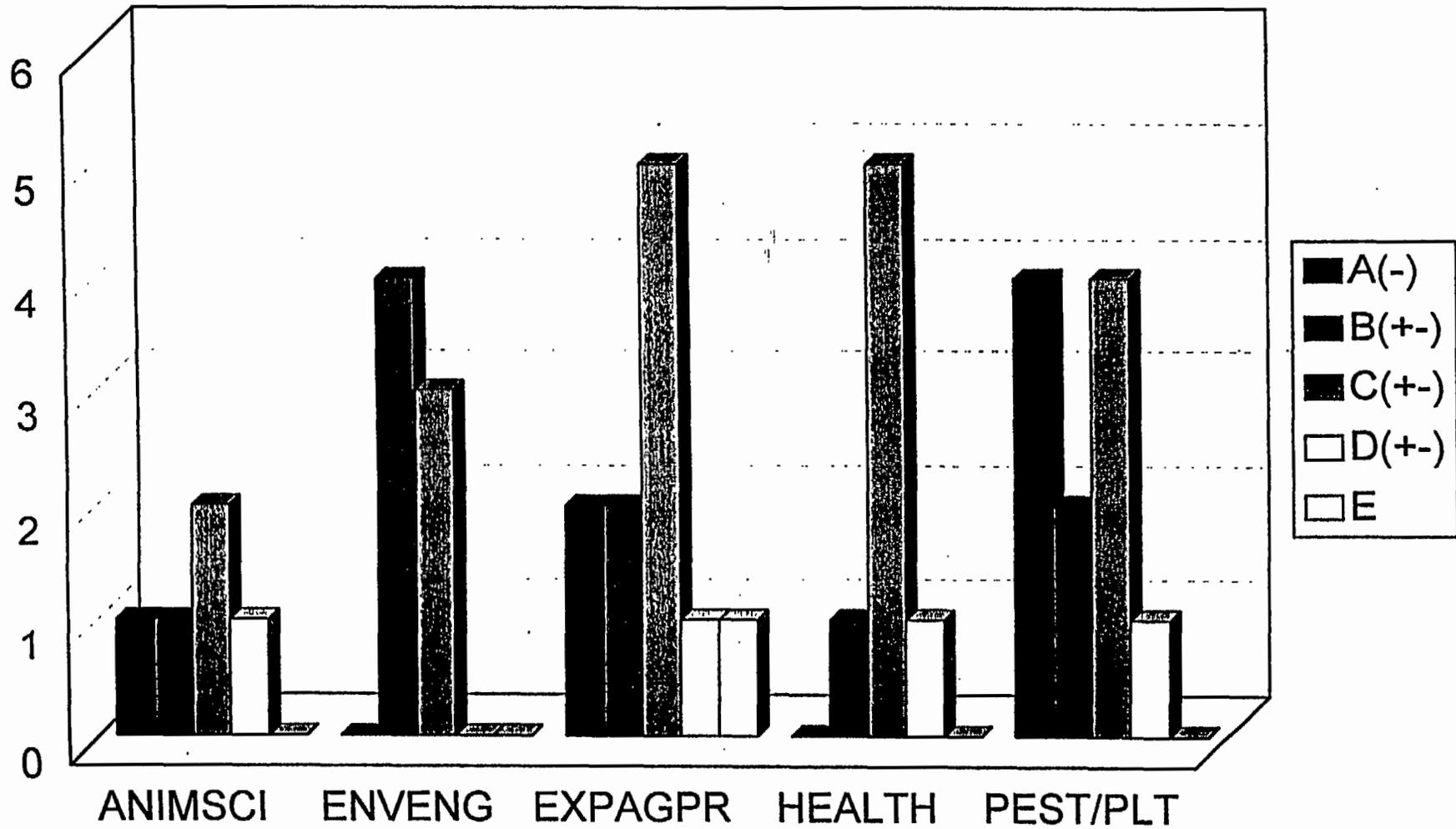
by Research Region



FY96 November 27, 1996

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GRADES BY PANEL



FY97 November 26, 1996

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