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# Compendium of U.S. Science and Technology Activities in Developing Countries

Compiled under the auspices of  
The Subcommittee on Science and Technology  
in Developing Economies (SATIDE)  
a Subcommittee of the Committee on International Science,  
Engineering and Technology (CISET)  
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**Compendium of U.S. Science and Technology  
Activities in Developing Countries**

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# **Compendium of U.S. Science and Technology Activities in Developing Countries**

## **Preface**

The Federal Coordinating Council for Science, Engineering and Technology (FCCSET), recognizing the critical role of science and technology in promoting economic growth in the United States and abroad, has produced this Compendium to identify and characterize federally supported S&T programs in the developing world. Its purpose is to lay the foundation for a government-wide effort to articulate, from a national perspective, future priorities for U.S. support of science and technology in developing countries, accounting for the various strengths of individual technical agencies of the U.S. Government.

The Subcommittee on Science and Technology in Developing Economies (SATIDE) of the Committee on International Science, Engineering and Technology (CISSET) was given primary responsibility for developing the Compendium. SATIDE members collaborated closely in all phases of the Compendium's development, from the initial decisions on data categories, to the voluntary contributions of data, to production of the final document. Members include the Agency for International Development, Department of Agriculture, Department of Health and Human Services, Department of Commerce, Department of Energy, Department of Interior, Department of State, Environmental Protection Agency, Housing and Urban Development, National Aeronautics and Space Administration, Nuclear Regulatory Commission, and National Science Foundation.

Development of this Compendium was made possible only through the high level of interagency cooperation and collaboration demonstrated throughout the production process.

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# **CHAPTER I**



## **INTRODUCTION**

# **Compendium of U.S. Science and Technology Activities in Developing Countries**

## **Introduction**

### **Purpose of the Compendium**

Advances in science and technology, incorporated into the economic life of a nation, provide a solid foundation for development. Throughout history, the translation of scientific findings into products and processes has been a necessary step in improving standards of living and sustaining economic growth. As discoveries in new and established fields of science rapidly accelerate, the historic linkage between S&T capabilities and development has grown in significance as economies become ever more dependent on technological competence.

Recognizing these linkages, developing countries in all regions of the world are collaborating with the United States in a diverse range of scientific projects and programs. The Compendium provides a comprehensive overview of these activities. Viewed simply, the Compendium is a database of disparate activities which are supported by the various funding agencies to help meet specific objectives and agency mandates. However, the Compendium offers more. Taking the threads of individual activities, large and small, in all regions of the world, in diverse scientific disciplines, the Compendium provides a view of the whole. From this perspective, the Compendium's data could thus contribute to an examination of the United States' future priorities for science and technology in developing countries.

Data in the Compendium meet an important need, but these data must be used with care. Given the dangers of misinterpretation, the reader is strongly urged to review carefully the data collection methods, definitions, and caveats described in this chapter, as well as the Methodological Notes in the final annex.

### **Definitions and Parameters**

For the purpose of this Compendium, an activity is considered to be "science and technology" when its primary purpose is to enhance knowledge or is motivated by uncovering knowledge through 1) objective observation and quantification and classification of facts; or 2) experimentation which can be independently verified and duplicated. These include efforts to

a) discover new facts and interpret them correctly, or exchange existing data; b) revise accepted conclusions, theories, or laws in light of newly discovered facts; c) apply systematically new or revised verifiable and duplicable knowledge to practical purposes; and d) develop research tools which can be used to accomplish the above. An "activity" for the purposes of the Compendium is the basic unit of implementation for agency actions. This can be individual projects or aggregates of actions unified by a common theme or under an umbrella of a larger program.

"Developing Countries" included in the Compendium are all those not contained in the following list: Australia; Austria; Belgium; Canada; Denmark; Finland; France; Germany; Greece; Ireland; Italy; Japan; Korea; Netherlands; New Zealand; Norway, Sweden; Switzerland; Taiwan; Turkey; United Kingdom; and Albania; Bulgaria; Czechoslovakia; Hungary; Poland; Romania; Soviet Union; and Yugoslavia. While many nations of Central Europe could arguably be considered as developing countries, science and technology activities in this region are being examined elsewhere and so are excluded from this Compendium.

Federally-funded activities are included in the Compendium only if 1) they meet the above definition of science and technology; 2) are physically implemented in a developing country; or 3) are done in collaboration with individuals from the developing world or in collaboration with a developing country institution. This includes bringing developing country scientists to the United States or third countries. In addition, only activities which are active in fiscal year 1991, or which are planned for fiscal year 1992, are included. If an activity contains several components, some of which are not science and technology, or are not done in collaboration with a developing country, the Compendium reflects, to the degree possible, only the portion of the activity relating to science and technology in the developing world. All developing countries in which a project is implemented are listed in the Compendium. If implemented in both developed and developing countries, an attempt was made to include only the developing country components of the activity.

Funding levels provided in the Compendium correspond, when possible, only to the components of an activity which meet the definitions of the Compendium. Funding is given as *average annual expenditures* over the life of the activity. If the activity does not have a known completion date, expenditures are averaged over the last three years. For new activities with no known completion date which have been implemented for less than three years, the average is calculated for the years available.

## **Interpreting and Using the Data**

The Compendium represents a first attempt to gather these types of data on science and technology across the federal government. As such, the document reflects both the weaknesses and strengths of a new product. The weaknesses should be well understood, and

the data must be interpreted carefully. The Compendium data were collected through voluntary submissions from participating agencies. This method of gathering data, while efficient and cost effective, introduces several sources of potential error.

- o Even with an objective definition of science and technology, the set of activities to be included in the Compendium is determined subjectively by each agency. As a result, some activities which should be included are likely not, and vice versa.
- o In some entries, funding for an entire activity/project (i.e. worldwide totals) is provided, rather than expenditures for the relevant components, resulting in inflated totals. These totals, however, represent a capability on which developing countries can draw.
- o Some double counting will occur, where one agency provides funding to another, and both report the activity.
- o The Compendium, in this first iteration, combines large and small projects, programs, and umbrella agreements without distinction. In addition, some agencies did not submit data at the country level, so country data will be incomplete.
- o Different sectors (health, environment, etc.) are not mutually exclusive. Therefore, the number of activities/projects listed in any one category represents only a *minimum* number for that category. For example, while NSF has a total of 6 "environment" projects listed, it may have many more under Earth Sciences/Oceans, legitimately environmental but not so labeled.

Other errors will arise from simplifying assumptions used in data analysis. For example, funding levels for activities under \$100,000 were given in ranges, and the *mid-points* of those ranges were used in the analysis. In addition, because *average annual funding* was used, the data provide only an estimate of actual funding levels for any one fiscal year.

While the potential exists for numerous errors, SATIDE members concluded that their overall magnitude is not sufficiently large to warrant corrective action, at least not in a first round of data collection. While the data could no doubt be refined, further improvements would have increased the complexity of the exercise exponentially without altering the major conclusions about U.S. support for science and technology in developing countries. Further improvements and enhanced accuracy are possible in subsequent iterations as the market for these data demands.

## **Participating Agencies**

**The Department of Commerce (DOC)** promotes American economic security by helping

businesses become more competitive. DOC goals to enhance competitiveness include: advocating market-based reforms to promote free trade and investment for emerging democracies; identifying export opportunities for U.S. corporations with global trading partners; strengthening intellectual property protection; promoting expansion of industrial research and development and commercialization of new technologies; and supporting balanced management of the oceanic and atmospheric environment. By their nature, many of these activities are carried out internationally, many with developing countries. DOC agencies responsible for international programs include the: Technology Administration; National Telecommunications and Information Agency; National Oceanographic and Atmospheric Administration (NOAA); and Census Bureau. As an example of international activities, Census offers training in statistics and population studies and NOAA provides technical assistance with earth and marine environmental research and monitoring. International activities are carried out through cooperative agreements with counterpart agencies, and through less formal sharing of scientific data and scientist exchanges.

**The Department of the Interior (DOI)** supports diverse activities in developing countries which reflect the varied missions of its bureaus. The U.S. Geological Survey (USGS) supports science and technology programs worldwide and in virtually all the disciplines encompassed within the earth sciences. USGS programs cover such diverse activities as foreign mineral resource assessments, earthquake prediction, marine geology, and ground water monitoring. The Bureau for Reclamation works with Israel in oceanography and agriculture. The Bureau of Land Management regularly exchanges scientific and technical information with other countries in such areas as automated land information systems, land use planning and environmental impact assessment procedures, fire management, and others. The Office of Surface Mining assists foreign countries in reducing the environmental impacts of mining and in postmining land reclamation. The U.S. Fish and Wildlife Service provides technical assistance to developing countries on the research, management, and conservation of endangered species, migratory species (particularly those shared with the United States), and important areas of species diversity and economic importance such as wetlands. The bulk of these activities are in training, education, and environmental education aimed at better equipping developing countries to manage their natural resources wisely. The National Parks Service is engaged in several small research projects in Wider Caribbean Basin countries.

**Department of Transportation (DOT)** was created in 1966 to promote the general welfare, economic growth, and stability of the United States, as well as its security, through "the development of national transportation policies and programs conducive to the provision of fast, safe, convenient, and efficient transportation at the lowest cost consistent therewith and with other national objectives, including the efficient utilization and conservation of the Nation's resources." DOT has articulated six key themes underlying its activities: 1) maintaining and expanding the country's transportation system; 2) fostering a sound base for transportation; 3) keeping the transportation industry strong and competitive; 4) ensuring that the transportation system supports public safety and national security; 5) protecting the environment and quality of life; and 6) advancing U.S. transportation technology and expertise. Consistent with these themes, DOT supports a variety of international

arrangements for technology interchange and technical assistance, which are usually developed on a case-by-case basis with host country governments. The Office of International Trade and Transportation, under the Assistant Secretary for Policy and International Affairs, serves as the organizational focus for many of these programs.

**The Department of State (DOS)** has negotiated government-to-government science and technology agreements with ten developing countries. These agreements provide a framework or "umbrella" for the conclusion of bilateral cooperation arrangements between U.S. technical agencies and their foreign counterparts. The agreements customarily provide for periodic meetings between the two governments to discuss issues in science policy, to review the scope of bilateral science cooperation, and to discuss priorities for future cooperative activities. With a few countries, the umbrella agreements govern the operation of a bilateral science and technology foundation which funds joint research and other cooperative science and technology activities. In countries with which the U.S. government has no umbrella science and technology agreements, technical cooperation occurs via memorandum of understanding negotiated directly between technical agencies of the two governments.

**The Environmental Protection Agency (EPA)** is charged with improving and preserving the quality of the environment, both nationally and globally. Domestically, EPA provides leadership in the nation's environmental science, research, and assessment efforts. EPA also develops and implements regulatory programs designed to protect human health and the environment. EPA provides for the enforcement of regulations, promotes cross-media and interstate initiatives, and communicates information to the public, regulated community, government agencies, and public interest groups. In addition, EPA has identified efforts to protect the global environment as one of its highest priorities. EPA thus supports international programs and agreements on a wide range of environmental issues, including global climate change, stratospheric ozone depletion, technology cooperation, transboundary movement of hazardous waste, deforestation, and preservation of biological diversity and the marine environment. EPA works closely with international organizations and other industrialized and developing nations throughout the world.

**The Department of Housing and Urban Development (HUD)** has the primarily domestic mission to create conditions for every family to have decent and affordable housing, to ensure equal housing opportunities for all, and to help strengthen the nation's urban communities. In addition, HUD has the authority to establish information exchange programs with foreign governments on subjects related to the policies and programs of the Department. As a result, HUD participates in both multilateral and bilateral programs. Bilateral programs involve direct agency-to-agency agreements with HUD counterparts in the governments of Mexico, Canada, the Soviet Union, and China.

**The National Aeronautics and Space Administration (NASA)** supports research which by its nature is global in scope. Therefore, NASA conducts scientific research in locations scattered across the Earth, often working closely with developing countries. An example of the geographic reach of NASA's research is the global dynamics program, in which the

movement of Earth's tectonic plates is studied. This project includes a network of geodetic stations *in situ* to record the direction, velocity and type of plate motion in strategic locations throughout the world. NASA is cooperating with several developing countries to site and operate these stations.

**The Nuclear Regulatory Commission (NRC)** is responsible for ensuring that the civilian uses of nuclear materials and facilities are conducted in a manner consistent with public health and safety, environmental quality, national security, and antitrust laws. NRC largely focuses on regulating the domestic use of nuclear energy to generate nuclear power. NRC engages in international cooperation activities to contribute to, and learn from, the safe operation of nuclear facilities and the safe use of nuclear materials throughout the world. International activities with both advanced and developing economies include technical document and information exchange, safety research collaboration, and technical expert assistance. Activities with developing countries are conducted both bilaterally and through the International Atomic Energy Agency.

**The National Science Foundation (NSF)** encourages and supports U.S. participation in international science and engineering activities that promise significant benefit to the U.S. research and training effort. NSF promotes the international exchange of science and engineering research knowledge, initiates and supports international cooperative activities, creates opportunities for scientific collaboration in developing countries, and provides support to U.S. institutions engaged in research conducted abroad.

**The Public Health Service (PHS) of the Department of Health and Human Services (DHHS)** is comprised of eight agencies: the Agency for Health Care Policy and Research; Agency for Toxic Substances and Disease Registry; Alcohol, Drug Abuse and Mental Health Administration; Centers for Disease Control; Food and Drug Administration; Health Resources and Services Administration; Indian Health Service; and National Institutes of Health. Each is engaged in international activities under the PHS mandate to enhance and protect the health of the people of the United States in cooperation with other countries on a bilateral basis and with agencies of the United Nations system; or in collaboration with the Agency for International Development to further the U.S. foreign assistance program. PHS agencies cooperate with approximately 45 developing countries. In both developed and developing countries, PHS supports a significant number of foreign scientists visiting or working in PHS laboratories; epidemiological studies; operational research; biomedical and other health research projects; and scientific and technical cooperation in such fields as aging; AIDS; cancer; cardiovascular disease; child health, including child survival; communicable diseases and vaccine research; chronic diseases; genetics; health education and communication; health manpower development; health planning and policy; nursing; neurological disorders; nutrition; tropical medicine; and institution strengthening. In developing countries, important emphases have been tropical medicine; AIDS; and strengthening epidemiological capability and the ability to use health data for decision-making, particularly for child survival programs and for AIDS.

**The Agency for International Development (USAID)** manages the U.S. foreign assistance program, providing economic and humanitarian aid to more than 80 developing countries worldwide. Science and technology have contributed significantly to key USAID programs in population, agriculture, health, nutrition, energy, and the environment. USAID supports its considerable science and technology program in developing countries based on the premise that advances in science are critical to sustainable economic development. A primary goal is to help developing countries establish an indigenous capacity to create and manage technological change as a fundamental force of economic growth.

**The United States Department of Agriculture (USDA)** designs its science and technology programs to enhance the long-term viability and competitiveness of the food production and agricultural system of the United States within the global economy. A major reason for USDA's global agricultural involvement is the fact that a majority of the United States' commercially important crops and livestock originated abroad. The centers of origin for these crops and livestock is genetically diverse, and hence is a reservoir of genes important to combat disease and pests. USDA's international activities, recognizing the interdependence in the biology, husbandry and economics of agriculture, focus on institutions and individuals performing agricultural and related research and extension activities on problems of significance to food and agriculture in the United States. Several offices, agencies, and services in USDA are involved in implementing these international activities: Office of the Assistant Secretary for Science and Education; Agricultural Research Service; Animal and Plant Health Inspection Service; Forest Service; Soil Conservation Service; and Office of International Cooperation and Development.

# **CHAPTER II**

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## **OVERVIEW**

## Overview

This Compendium is based on survey data and is designed as a reference for science and technology activities in developing economies. The data on these activities have been organized so the reader will be able to research a variety of inquiries. Depending on the type of information required, the reader may consult: summary tables, listings of data by agency and country, and an index of keywords which describe the major focus of the activities.

### Data Organization

The tables are organized around three major components of Science and Technology activities: the *agency* administering and/or funding the activity, the *sector* or primary field of study associated with the activity, and the geographic region or *country* involved with the activity. A fourth major component is the amount of *funding* per activity. The tables display the number of activities, the average funding per activity, and the total funding for each component separately and in combination with the other components. The tables are organized by component and presented in Chapter III, Agency Perspectives; Chapter IV, Sector Perspectives; and Chapter V, Geographic Perspectives:

Activities are listed by agency in Appendix A (National Science Foundation activities are listed in Appendix D, see below). Each listing contains the following information: name of agency, science and technology sector, title of the activity, country of implementation, amount of funding, agency contact person and telephone number. Activities are ordered by Agency, Sector within Agency, and Country within Sector. For activities implemented in more than one country the country is identified as "multicountry." Each activity is preceded with a number which permits referencing data in Appendices B and C back to the primary activity in Appendix A.

Activities are listed in Appendix B for each country in which the activity is implemented. The activities are arranged by country, sector within country, and agency within sector. Each country project is preceded by a reference number which refers to the primary activity in Appendix A. By referring to the primary activity, the agency's contact person and telephone number can be found. Country projects which are part of a multicountry activity are marked with an asterisk.

Appendix C contains an index of the keyword descriptors taken from the reporting form (All agencies other than NSF). The index is organized by sector and keywords within sector. Each keyword is referenced to its primary activity in Appendix A.

Appendices D and E contain National Science Foundation activities. NSF activities differ markedly from those of other agencies. For example, three of the largest individual activities were over \$25,000,000 (see Appendix A: DHHS, \$49,600,00; USDA, \$37,700,000; USAID, \$26,000,000). By contrast, the NSF's total funding was less than \$20,000,000 for 489

activities (52 percent of all S&T activities) The National Science Foundation's main focus is on small-scale collaborative research projects among U.S. and foreign scientists.

The listings for NSF data are similar to that for other agencies in Appendices A and B except the name of the NSF funding program is used in the place of a contact person. The change is necessary because NSF program staff positions are rotated regularly among visiting scientists. The name of the funding program will help NSF staff assist interested readers in obtaining more information about a particular activity.

The reader is encouraged to use both the tables and the project and keyword listings when researching S&T activities.

## Agency Perspectives

The number and funding of science and technology activities vary among U.S. agencies according to each agency's mandate to provide assistance to developing economies. The primary responsibility of U.S. agencies is to domestic programs; the exception is the Agency for International Development (USAID)

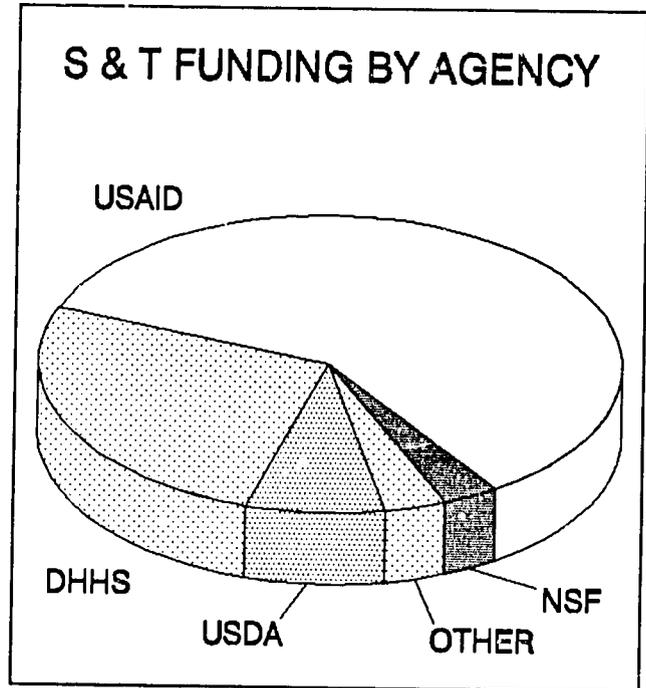
Table A1: S&T Activities and Funding by Agency

	Activities			Annual Funding (\$)	
	Nonfunded	Funded	Total	Average	Total
DHHS	2	34	36	4,707,353	160,050,000
DOC	11	15	26	437,267	6,559,000
DOE	10	0	10	0	0
DOI	6	62	68	106,371	6,595,000
DOS	12	0	12	0	0
DOT	6	0	6	0	0
EPA	5	9	14	173,556	1,562,000
HUD	0	1	1	30,000	30,000
NASA	0	9	9	642,222	5,780,000
NRC	9	0	9	0	0
NSF	0	489	489	39,312	19,223,580
USAID	2	278	280	1,211,348	336,754,850
USDA	43	39	82	1,200,192	46,807,500
<b>TOTAL</b>	<b>106</b>	<b>936</b>	<b>1042</b>	<b>623,250</b>	<b>583,361,930</b>

which administers the U.S. foreign assistance program. A brief description of each agency is included in the Introduction.

The data in Table A1 clearly demonstrate the variability in the funding among Agencies. Of the total number of activities approximately 10 percent were nonfunded. Many of these activities are cooperative agreements for information exchange such as those administered by the Department of Energy (10), the Department of State (12), the Department of Transportation (6), and the Nuclear Regulatory Commission (9). [See Appendix A for additional information.] Among agencies with funded activities, The U.S. Department of Agriculture is the only agency with more nonfunded activities (43), than funded activities (39). Many nonfunded activities involved technical assistance funded through other sources.

Calculated on the basis of averaged annual funding, nearly \$600 million was spent in 1991 by U.S. agencies in support of science and technology activities internationally. Of this total more than one-half (60%) was provided by the United States Agency for International Development (USAID). The Department of Health and Human Services was the next largest funder contributing 26 percent of S&T funds, followed by the Department of Agriculture which provided eight percent of all funding. The remaining agencies combined accounted for another seven percent of the total.



The average allocation per funded activity also varies greatly among agencies. The Department of Health and Human Services has the highest average funding per activity (\$4,700,000) followed by USAID and USDA in the \$1,200,000 range, a number of agencies in the \$100,00 to 650,000 range, and NSF with average funding of \$40,000 per activity. The averages however, disguise the wide variation in funding within Agencies. Additional data from Appendix A indicates that 50% of DHHS's total funding (\$1,400,000) is allocated to just three activities. Likewise, over 90% of funding by the United States Department of Agriculture (\$43,000,000) is allocated to two activities relating to cooperative programs in plant and animal disease control with Central American countries.

In Chapter III, Agency Perspectives, additional tables provide information on agency funding within sectors, regions, countries, and countries within sectors. In these tables the number of country projects are greater than the number of activities in Table A1 because activities may be implemented in more than one country.

## Sector Perspectives

Over two-thirds of the total funding is concentrated in just two of the 18 sectors: health, \$255 million and agriculture, \$150 million. The energy and population sectors received funding at the \$40 million level, followed by education and environment in the \$20 million range.

Table A2: S&T Activities and Funding by Sector

	Activities		Annual Funding (\$)	
	Funded	Total	Average	Total
Agriculture	160	203	938,083	150,093,350
Chemistry	30	30	8,365	250,964
Earth SCI/Atmosp	11	13	345,191	3,797,104
Earth SCI/Oceans	30	31	108,900	3,267,014
Earth SCI/Terres	145	153	74,370	10,783,582
Education	21	23	1,332,381	27,980,000
Energy	27	46	1,573,185	42,476,000
Engineering	91	91	32,242	2,934,051
Environment	68	74	340,182	23,132,390
Health	99	102	2,576,111	255,035,000
Mathematics	18	18	10,280	185,036
Other Life SCI	89	89	42,355	3,769,558
Physics	52	52	26,378	1,371,670
Population	11	11	3,655,000	40,205,000
SCI Policy/Umbr	0	11	0	0
Social Sciences	49	49	192,885	9,451,389
Space Sciences	23	24	42,601	979,822
Techno/Industry	12	22	637,500	7,650,000
<b>TOTAL</b>	<b>936</b>	<b>1042*</b>	<b>559,848</b>	<b>583,361,930</b>

\* There are 1042 funded and nonfunded primary activities. This compares with 1297 country activities shown in Table 6.

Nonfunded activities are centered in the sectors of Energy, Science Policy and Umbrella Agreements, Technology and Industry, and Agriculture. As noted in the section on Agencies, nonfunded activities usually involve agreements for scientific and technological information exchange and cooperation, or technical assistance funded through other sources.

The average expenditure for funded activities reflect the contrast in agency funding patterns observed in Table A1. The sectors that receive the bulk of their funding from the National Science Foundation (such as Chemistry, Earth Science/Terrestrial, Engineering, and Physics) average less than \$100,000 per activity. For other sectors the average funding varies from almost 1 million dollars for agriculture to approximately 3.5 million dollars per activity for the population sector. A breakdown of agency spending in each sector is given in Table 7.

In Table A3 ten sectors have been combined into one sector identified as Basic Science. Reduced to eight sectors significant variations in funding patterns among sectors become more apparent.

Table A3: S&T Funding by Sector - Funded/Nonfunded Activities

	-N-	Annual Funding (\$)		
		Average+	Total	Percent
Agriculture	203	938,083	150,093,350	25.7
Basic Science	501	55,908	27,338,801	4.7
Education	23	1,332,381	27,980,000	4.8
Energy	46	1,573,185	42,476,000	7.3
Environment	74	340,182	23,132,390	4.0
Health	102	2,576,111	255,035,000	43.7
Population	11	3,655,000	40,205,000	6.9
Other	82	280,351	17,101,389	2.9
<b>TOTAL</b>	<b>1042</b>	<b>623,250</b>	<b>583,361,930</b>	<b>100.0</b>

+ Annual average funding for *funded* activities (N = 936).

\* "Other" = the Social Science and Technology/Industry sectors.

The combined sector "Basic Science" represents almost 50 percent of all activities but accounts for less than 5 percent of funding. By contrast, with about one-third of all activities, the Agriculture and Health sectors account for over two-thirds of all funding.

The greatest contrast in average annual funding is between the Basic Science sector (\$56,000) and the other sectors which range from \$280,000 to over \$3.5 million. Funding within sectors, however, may vary as much as funding among sectors. For example, of the 46 activities in the Energy sector, 19 are nonfunded cooperative agreements and of the 27 funded activities, one project accounts for over 60 percent of all funding (see Table 7 and Appendix A).

In Chapter IV, Sector Perspectives, additional tables provide information on sector funding by agencies, and within regions and countries.

## Geographic Perspectives

A major portion of funding of science and technology (38%) is used to support worldwide activities (several countries and more than a single region). Among regions, the Asia/Near East region (33%) receives as much support as the Latin America (17%) and Africa (13%)

regions combined. In general, the average size of funding for worldwide activities is considerably larger than those that are region or country specific. However, if the NSF

activities are controlled for, the average annual funding of regional activities increase to around \$500,000.

Table A5: S&T Funding by Region

	Activities	Annual Funding (\$)		
		Average	Total	Percent
Worldwide	101	2,196,099	221,806,000	38.0
Africa	168	448,896	75,414,490	12.9
Asia/Near East	572	330,957	189,307,555	32.5
Latin America	456	212,355	96,833,885	16.6
TOTAL	1297	449,778	583,361,930	100.0

Some 90 countries participate in science and technology activities with U.S. Government agencies. As with agency and sector funding, some countries receive substantially more funding than others (see Table A6). The combined funding of the ten countries that receive the highest levels of annual funding is almost equal to total worldwide funding and twice that received by the remaining 80 countries.

In some of the ten highest funded countries, one or two activities may account for a large portion of funding. For example, in Pakistan a rural electrification activity contributes about 50% of the funding and almost all the funding in Belize and Guatemala pertains to activities by the Mexico/U.S. Commission for the Eradication of Screwworm. About two-thirds of funding for China and India involve health projects by the Department of Health and Human Services (See Appendix B).

The funding information at the individual country level should be used with caution. Agencies provided estimates of funding for each activity, and if applicable, the countries participating in the activity. Funding for individual countries is calculated by dividing the total funding by the number of countries taking part in the activity and assigning to each country an equal portion of the total funding. The amount of funding assigned to a participating country may underestimate or overestimate the actual funding to any one country.

Table A6: S&T Funding by Geographic Area

	Activities	Annual Funding (\$)		
		Average	Total	Percent
Worldwide	101	2,196,099	221,806,000	38.0
Region-wide	60	436,634	26,198,013	4.5
Belize	6	1,712,500	10,275,000	
Brazil	80	122,903	9,832,215	
Guatemala	13	1,022,514	13,292,683	
Mexico	94	301,809	28,370,065	
Kenya	20	507,511	10,150,215	
China	144	124,837	17,976,510	
Egypt	36	1,016,538	36,595,350	
India	177	148,328	26,253,994	
Pakistan	42	1,279,891	53,755,407	
Philippines	26	398,764	10,367,857	
Top Ten Countries	638	339,921	216,869,296	37.2
Other Countries	498	237,929	118,488,621	20.3
TOTAL	1297	449,778	583,361,930	100.0

The tables in Chapter V, Geographic Perspectives, contains the basic data on agency and sector funding within regions and individual countries. Also, the reader should consult Appendix B and Appendix E which have activity titles, sector and funding information listed by country.

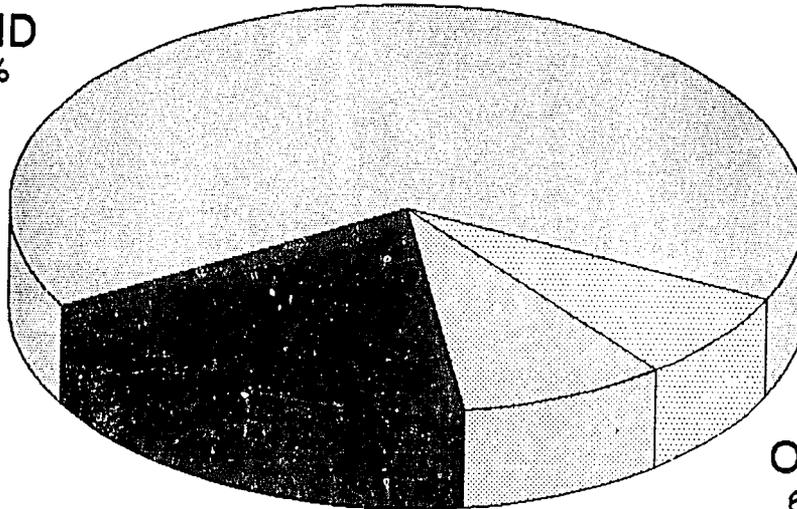
# **CHAPTER III**

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## **AGENCY PERSPECTIVES**

## S & T Funding by Agency

USAID  
57.7%



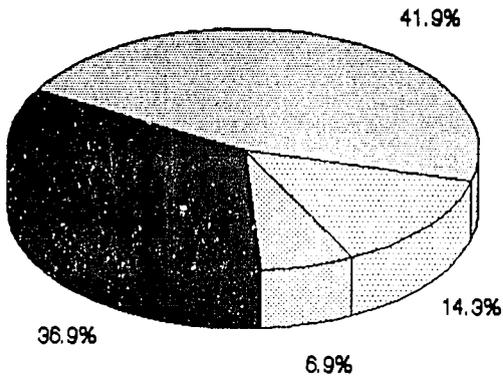
DHHS  
27.4%

USDA  
8.0%

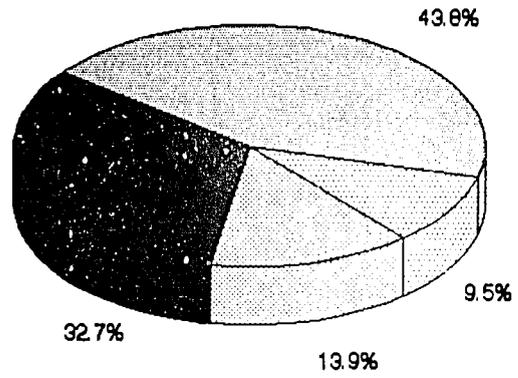
Other  
6.8%

Total Funding: \$583,361,930

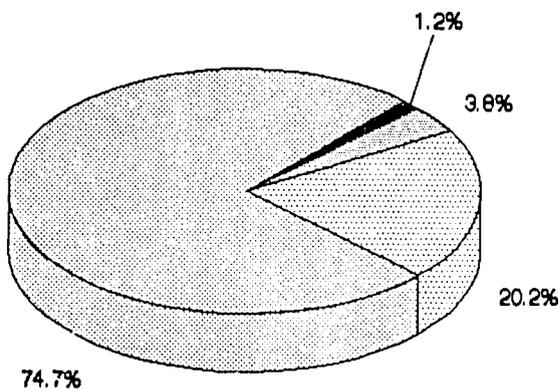
# Agency Funding by Region



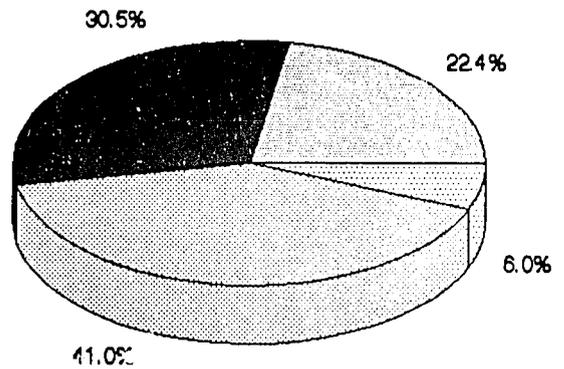
USAID



DHHS



USDA



Other Agencies

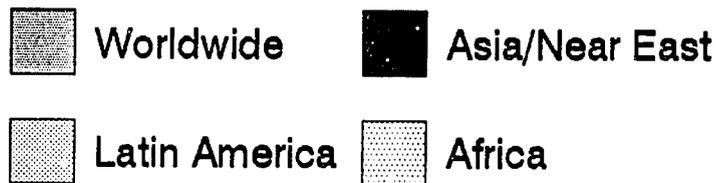


Table 1: S&T Funding by Federal Agency

Federal Agency	Annual Funding (\$) per Agency		
	-N-	Average	Total
DHHS	139	1,151,439	160,050,002
DOC	28	234,250	6,559,000
DOE	10	0	0
DOI	88	74,943	6,595,000
DOS	12	0	0
DOT	6	0	0
EPA	19	82,211	1,562,000
HUD	1	30,000	30,000
NASA	9	642,222	5,780,000
NRC	9	0	0
NSF	517	37,183	19,223,575
USAID	371	907,695	336,754,852
USDA	88	531,903	46,807,501
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 2: S&T Funding by Agency and Sector

	Annual Funding (\$) per Sector		
	-N-	Average	Total
<b>Federal Agency Sector</b>			
<b>DHHS</b>			
Health	139	1,151,439	160,050,002
<b>DOC</b>			
Earth SCI/Atmosp	3	66,667	200,000
Earth SCI/Oceans	4	10,000	40,000
Earth SCI/Terres	3	0	0
Social Sciences	7	744,143	5,209,000
Space Sciences	2	50,000	100,000
Techno/Industry	9	112,222	1,010,000
<b>DOE</b>			
Energy	10	0	0
<b>DOI</b>			
Agriculture	3	103,333	310,000
Earth SCI/Terres	41	96,829	3,969,997
Environment	37	49,054	1,815,000
Other Life SCI	7	71,429	500,003
<b>DOS</b>			
Health	1	0	0
SCI Policy/Umbr	11	0	0
<b>DOT</b>			
Techno/Industry	6	0	0
<b>EPA</b>			
Environment	19	82,211	1,562,000
<b>HUD</b>			
Social Sciences	1	30,000	30,000
<b>NASA</b>			
Earth SCI/Atmosp	1	3,000,000	3,000,000
Earth SCI/Terres	6	292,500	1,755,000
Health	1	750,000	750,000
Space Sciences	1	275,000	275,000
<b>NRC</b>			
Energy	9	0	0

Table 2: S&amp;T Funding by Agency and Sector

(Continued)

	Annual Funding (\$) per Sector		
	-N-	Average	Total
<b>NSF</b>			
Chemistry	30	8,365	250,964
Earth SCI/Atmosp	9	66,345	597,104
Earth SCI/Oceans	30	107,567	3,227,014
Earth SCI/Terres	122	41,464	5,058,581
Engineering	95	30,885	2,934,051
Environment	6	63,232	379,390
Mathematics	21	8,811	185,036
Other Life SCI	93	35,157	3,269,557
Physics	52	26,378	1,371,670
Social Sciences	35	38,440	1,345,387
Space Sciences	24	25,201	604,821
<b>USAID</b>			
Agriculture	139	740,833	102,975,851
Education	52	538,077	27,980,000
Energy	35	1,213,600	42,476,001
Environment	29	668,138	19,376,003
Health	79	1,192,848	94,235,000
Population	19	2,116,052	40,204,997
Social Sciences	11	260,636	2,867,000
Techno/Industry	7	948,571	6,640,000
<b>USDA</b>			
Agriculture	88	531,903	46,807,501
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 3: S&T Funding by Agency and Region

Federal Agency Region	Annual Funding (\$) per Sector		
	-N-	Average	Total
<b>DHHS</b>			
Worldwide	10	7,010,000	70,100,000
Africa	28	545,315	15,268,829
Asia/Near East	68	770,133	52,369,048
Latin America	33	676,125	22,312,125
<b>DOC</b>			
Worldwide	10	500,900	5,009,000
Asia/Near East	11	63,636	700,000
Latin America	7	121,429	850,000
<b>DOE</b>			
Asia/Near East	4	0	0
Latin America	6	0	0
<b>DOI</b>			
Worldwide	1	3,000,000	3,000,000
Africa	11	73,678	810,457
Asia/Near East	31	32,933	1,020,908
Latin America	45	39,192	1,763,635
<b>DOS</b>			
Asia/Near East	8	0	0
Latin America	4	0	0
<b>DOT</b>			
Asia/Near East	4	0	0
Latin America	2	0	0
<b>EPA</b>			
Africa	6	12,500	75,000
Asia/Near East	10	143,200	1,432,000
Latin America	3	18,333	55,000
<b>HUD</b>			
Asia/Near East	1	30,000	30,000
<b>NASA</b>			
Worldwide	1	900,000	900,000
Asia/Near East	1	150,000	150,000
Latin America	7	675,714	4,730,000
<b>NRC</b>			
Asia/Near East	4	0	0
Latin America	5	0	0
<b>NSF</b>			
Africa	30	50,486	1,514,591
Asia/Near East	249	35,361	8,804,991
Latin America	238	37,412	8,903,993

Table 3: S&amp;T Funding by Agency and Region

(Continued)

	Annual Funding (\$) per Sector		
	-N-	Average	Total
<b>USAID</b>			
Worldwide	77	1,831,342	141,013,333
Africa	90	536,540	48,288,613
Asia/Near East	123	1,009,932	124,221,608
Latin America	81	286,806	23,231,298
<b>USDA</b>			
Worldwide	2	891,834	1,783,667
Africa	3	3,152,333	9,457,000
Asia/Near East	58	9,983	579,000
Latin America	25	1,399,513	34,987,834
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 4: S&T Funding by Agency, Region and Country

				Annual Funding (\$) per Country		
				-N-	Average	Total
Federal Agency						
Region						
Country						
DHHS						
Worldwide						
			10	7,010,000	70,100,000	
Africa						
	Region-wide Funding		1	128,571	128,571	
	Botswana		1	300,000	300,000	
	Burundi		1	700,000	700,000	
	Cameroon		1	128,571	128,571	
	Central African Rep.		1	700,000	700,000	
	Gambia, The		1	300,000	300,000	
	Guinea		1	700,000	700,000	
	Ivory Coast		1	700,000	700,000	
	Kenya		1	128,571	128,571	
	Lesotho		1	700,000	700,000	
	Liberia		2	414,286	828,571	
	Malawi		1	500,000	500,000	
	Mali		1	1,437,500	1,437,500	
	Nigeria		2	550,000	1,100,000	
	Rwanda		1	454,545	454,545	
	Senegal		1	500,000	500,000	
	Sudan		1	625,000	625,000	
	Swaziland		1	700,000	700,000	
	Tanzania		1	45,455	45,455	
	Togo		1	700,000	700,000	
	Uganda		1	500,000	500,000	
	Zaire		5	678,409	3,392,045	
Asia/Near East						
	China		11	1,174,764	12,922,402	
	Egypt		9	1,300,487	11,704,383	
	India		19	890,633	16,922,025	
	Indonesia		3	294,372	883,116	
	Israel		1	625,000	625,000	
	Jordan		1	45,455	45,455	
	Malaysia		3	266,667	800,000	
	Nepal		1	375,000	375,000	
	Pakistan		5	496,742	2,483,712	
	Philippines		4	250,000	1,000,000	
	Seychelles		1	45,455	45,455	
	Sri Lanka		1	400,000	400,000	
	Thailand		7	544,643	3,812,500	
	Turkey		1	50,000	50,000	
	Western Samoa		1	300,000	300,000	

Table 4: S&T Funding by Agency, Region and Country (Continued)

Annual Funding (\$) per Country			
	-N-	Average	Total
<b>DHHS (Continued)</b>			
<b>Latin America</b>			
Region-wide Funding	3	71,429	214,287
Barbados	1	375,000	375,000
Brazil	5	787,500	3,937,500
Chile	1	45,455	45,455
Colombia	2	221,429	442,858
Guatemala	1	454,545	454,545
Mexico	12	1,067,839	12,814,070
Peru	3	206,818	620,455
Venezuela	5	681,591	3,407,955
<b>DOC</b>			
<b>Worldwide</b>	10	500,900	5,009,000
<b>Asia/Near East</b>			
Region-wide Funding	1	100,000	100,000
China	2	17,500	35,000
India	3	101,667	305,000
Indonesia	1	5,000	5,000
Israel	1	5,000	5,000
Pakistan	1	0	0
Saudi Arabia	1	250,000	250,000
Thailand	1	0	0
<b>Latin America</b>			
Region-wide Funding	3	200,000	600,000
Brazil	1	150,000	150,000
Mexico	2	50,000	100,000
Venezuela	1	0	0
<b>DOE</b>			
<b>Asia/Near East</b>			
China	3	0	0
Saudi Arabia	1	0	0
<b>Latin America</b>			
Brazil	1	0	0
Chile	1	0	0
Costa Rica	1	0	0
Mexico	1	0	0
Venezuela	2	0	0
<b>DOI</b>			
<b>Worldwide</b>	1	3,000,000	3,000,000
<b>Africa</b>			
Region-wide Funding	1	300,000	300,000
Burkina Faso	1	71,429	71,429

Table 4: S&T Funding by Agency, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>DOI (cont.)</b>			
<b>Africa (cont.)</b>			
Chad	1	71,429	71,429
Ethiopia	2	37,078	74,156
Ghana	1	2,727	2,727
Mali	1	71,429	71,429
Mauritania	1	71,429	71,429
Nigeria	1	5,000	5,000
Senegal	1	71,429	71,429
Sudan	1	71,429	71,429
<b>Asia/Near East</b>			
China	8	28,125	225,000
Egypt	2	5,000	10,000
India	7	63,571	445,000
Indonesia	1	2,727	2,727
Iran	1	2,727	2,727
Israel	3	5,000	15,000
Jordan	1	80,000	80,000
Nepal	1	0	0
Pakistan	2	3,864	7,727
Philippines	2	16,364	32,727
Saudi Arabia	1	0	0
Sri Lanka	1	200,000	200,000
United Arab Emirates	1	0	0
<b>Latin America</b>			
Region-wide Funding	1	5,000	5,000
Argentina	1	100,000	100,000
Bolivia	2	50,000	100,000
Brazil	3	35,909	107,727
Chile	1	100,000	100,000
Costa Rica	4	60,682	242,727
Honduras	1	5,000	5,000
Jamaica	1	2,727	2,727
Mexico	24	37,614	902,727
Peru	1	100,000	100,000
Venezuela	6	16,288	97,727
<b>DOS</b>			
<b>Asia/Near East</b>			
China	1	0	0
Egypt	1	0	0
India	4	0	0
Indonesia	1	0	0
Mongolia	1	0	0

Table 4: S&T Funding by Agency, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
DOS (cont.)			
<b>Latin America</b>			
Argentina	1	0	0
Brazil	1	0	0
Mexico	1	0	0
Venezuela	1	0	0
DOT			
<b>Asia/Near East</b>			
China	4	0	0
<b>Latin America</b>			
Brazil	1	0	0
Mexico	1	0	0
EPA			
<b>Africa</b>			
Botswana	1	12,500	12,500
Lesotho	1	12,500	12,500
Malawi	1	12,500	12,500
Tanzania	1	12,500	12,500
Zambia	1	12,500	12,500
Zimbabwe	1	12,500	12,500
<b>Asia/Near East</b>			
China	7	203,143	1,422,000
India	3	3,333	10,000
<b>Latin America</b>			
Ecuador	1	50,000	50,000
Mexico	2	2,500	5,000
HUD			
<b>Asia/Near East</b>			
China	1	30,000	30,000
NASA			
<b>Worldwide</b>	1	900,000	900,000
<b>Asia/Near East</b>			
India	1	150,000	150,000
<b>Latin America</b>			
Argentina	1	275,000	275,000
Brazil	1	3,000,000	3,000,000
Chile	2	165,000	330,000
Mexico	2	525,000	1,050,000
Peru	1	75,000	75,000

Table 4: S&T Funding by Agency, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>NRC</b>			
<b>Asia/Near East</b>			
China	1	0	0
Egypt	1	0	0
Israel	1	0	0
Philippines	1	0	0
<b>Latin America</b>			
Argentina	1	0	0
Brazil	1	0	0
Mexico	2	0	0
Peru	1	0	0
<b>NSF</b>			
<b>Africa</b>			
Region-wide Funding	7	31,564	220,945
Ghana	1	6,830	6,830
Kenya	11	80,041	880,453
Morocco	1	9,548	9,548
Nigeria	1	9,298	9,298
Senegal	1	6,985	6,985
South Africa	3	43,908	131,723
Sudan	1	3,200	3,200
Swaziland	1	6,670	6,670
Tanzania	2	92,554	185,107
Zimbabwe	1	53,832	53,832
<b>Asia/Near East</b>			
Region-wide Funding	2	106,841	213,681
Bangladesh	1	58,906	58,906
China	102	31,148	3,177,108
Egypt	10	16,247	162,467
India	76	35,293	2,682,302
Indonesia	8	56,504	452,028
Israel	6	52,627	315,761
Jordan	2	11,670	23,340
Kiribati	1	52,768	52,768
Malaysia	6	37,345	224,068
Maldives	1	56,451	56,451
Nepal	1	10,000	10,000
Pakistan	15	31,685	475,278
Philippines	10	72,480	724,797
Singapore	2	14,064	28,127
Sri Lanka	1	9,304	9,304
Thailand	5	27,721	138,605

Table 4: S&T Funding by Agency, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
NSF (cont.)			
<b>Latin America</b>			
Region-wide Funding	9	35,472	319,250
Argentina	37	24,225	896,322
Bahamas, The	1	2,658	2,658
Barbados	1	135,092	135,092
Bolivia	6	31,841	191,044
Brazil	49	33,462	1,639,654
Chile	37	48,961	1,811,539
Colombia	9	20,568	185,115
Costa Rica	14	93,311	1,306,357
Ecuador	3	32,259	96,777
El Salvador	1	9,942	9,942
Guatemala	2	31,986	63,971
Guyana	1	2,000	2,000
Jamaica	5	69,084	345,421
Mexico	41	32,457	1,330,744
Nicaragua	1	9,942	9,942
Panama	1	63,119	63,119
Paraguay	1	50,887	50,887
Peru	2	23,101	46,202
Trinidad and Tobago	1	8,725	8,725
Uruguay	2	8,230	16,460
Venezuela	14	26,627	372,772
USAID			
<b>Worldwide</b>	77	1,831,342	141,013,333
<b>Africa</b>			
Region-wide Funding	17	1,147,075	19,500,279
Botswana	3	283,333	850,000
Burkina Faso	1	75,000	75,000
Burundi	1	212,500	212,500
Cameroon	8	121,220	969,762
Cape Verde	1	200,000	200,000
Chad	1	100,000	100,000
Gambia, The	1	100,000	100,000
Ghana	1	375,000	375,000
Guinea	1	400,000	400,000
Kenya	8	1,142,649	9,141,191
Madagascar	1	71,429	71,429
Malawi	2	237,500	475,000
Mali	8	195,594	1,564,750
Morocco	5	913,333	4,566,667
Mozambique	2	290,000	580,000
Niger	2	391,875	783,750
Nigeria	3	250,397	751,190

Table 4: S&T Funding by Agency, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>USAID (cont.)</b>			
<b>Africa (cont.)</b>			
Rwanda	4	227,083	908,333
Senegal	1	400,000	400,000
Sierra Leone	2	75,000	150,000
South Africa	1	375,000	375,000
Tanzania	2	285,167	570,333
Tunisia	4	1,022,500	4,090,000
Uganda	3	138,333	415,000
Zaire	2	43,215	86,429
Zambia	1	100,000	100,000
Zimbabwe	4	119,250	477,000
<b>Asia/Near East</b>			
Region-wide Funding	6	222,500	1,335,000
Afghanistan	2	1,100,000	2,200,000
Bangladesh	3	465,476	1,396,429
Egypt	12	2,057,375	24,688,500
India	15	372,311	5,584,667
Indonesia	18	300,493	5,408,870
Jordan	8	465,104	3,720,833
Nepal	6	316,072	1,896,429
Oman	3	3,166,667	9,500,000
Pakistan	19	2,673,089	50,788,690
Papua New Guinea	2	262,500	525,000
Philippines	9	956,704	8,610,333
Sri Lanka	3	312,500	937,500
Thailand	12	387,669	4,652,024
Yemen	5	595,467	2,977,333
<b>Latin America</b>			
Region-wide Funding	8	385,625	3,085,000
Barbados	2	75,000	150,000
Belize	5	170,000	850,000
Bolivia	8	143,208	1,145,667
Brazil	5	181,667	908,334
Costa Rica	6	146,389	878,333
Dominican Republic	8	186,125	1,489,000
Ecuador	5	803,600	4,018,000
El Salvador	1	325,000	325,000
Grenada	1	550,000	550,000
Guatemala	7	222,857	1,560,000
Haiti	7	592,857	4,150,000
Honduras	5	170,500	852,500
Jamaica	4	206,250	825,000
Mexico	2	158,929	317,857
Paraguay	1	533,333	533,333
Peru	6	265,546	1,593,274

Table 4: S&T Funding by Agency, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>USDA</b>			
<b>Worldwide</b>	2	891,834	1,783,667
<b>Africa</b>			
Ghana	1	2,000	2,000
Libya	1	9,425,000	9,425,000
Zimbabwe	1	30,000	30,000
<b>Asia/Near East</b>			
Region-wide Funding	1	176,000	176,000
China	4	41,250	165,000
Egypt	1	30,000	30,000
India	49	3,163	155,000
Mongolia	2	17,500	35,000
Papua New Guinea	1	18,000	18,000
<b>Latin America</b>			
Argentina	1	5,000	5,000
Belize	1	9,425,000	9,425,000
Brazil	12	7,417	89,000
Colombia	1	1,150,000	1,150,000
Costa Rica	1	100,000	100,000
Guatemala	3	3,738,056	11,214,167
Mexico	4	2,962,417	11,849,667
Panama	1	1,150,000	1,150,000
Peru	1	5,000	5,000
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 5: S&T Funding by Agency, Sector, Region and Country

Annual Funding (\$) per Country			
	-N-	Average	Total
Federal Agency			
Sector			
Region			
Country			
<b>DHHS</b>			
Health			
Worldwide	10	7,010,000	70,100,00
Africa			
Region-wide Funding	1	128,571	128,571
Botswana	1	300,000	300,000
Burundi	1	700,000	700,000
Cameroon	1	128,571	128,571
Central African Rep.	1	700,000	700,000
Gambia, The	1	300,000	300,000
Guinea	1	700,000	700,000
Ivory Coast	1	700,000	700,000
Kenya	1	128,571	128,571
Lesotho	1	700,000	700,000
Liberia	2	414,286	828,571
Malawi	1	500,000	500,000
Mali	1	1,437,500	1,437,500
Nigeria	2	550,000	1,100,000
Rwanda	1	454,545	454,545
Senegal	1	500,000	500,000
Sudan	1	625,000	625,000
Swaziland	1	700,000	700,000
Tanzania	1	45,455	45,455
Togo	1	700,000	700,000
Uganda	1	500,000	500,000
Zaire	5	678,409	3,392,045
Asia/Near East			
China	11	1,174,764	12,922,402
Egypt	9	1,300,487	11,704,383
India	19	890,633	16,922,025
Indonesia	3	294,372	883,116
Israel	1	625,000	625,000
Jordan	1	45,455	45,455
Malaysia	3	266,667	800,000
Nepal	1	375,000	375,000
Pakistan	5	496,742	2,483,712
Philippines	4	250,000	1,000,000
Seychelles	1	45,455	45,455
Sri Lanka	1	400,000	400,000
Thailand	7	544,643	3,812,500
Turkey	1	50,000	50,000

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
DHHS (cont.)			
Health (cont.)			
<b>Asia/Near East (cont.)</b>			
Western Samoa	1	300,000	300,000
<b>Latin America</b>			
Region-wide Funding	3	71,429	214,287
Barbados	1	375,000	375,000
Brazil	5	787,500	3,937,500
Chile	1	45,455	45,455
Colombia	2	221,429	442,858
Guatemala	1	454,545	454,545
Mexico	12	1,067,839	12,814,070
Peru	3	206,818	620,455
Venezuela	5	681,591	3,407,955
DOC			
Earth SCI/Atmosp			
<b>Worldwide</b>	2	0	0
<b>Asia/Near East</b>			
India	1	200,000	200,000
Earth SCI/Oceans			
<b>Worldwide</b>	1	0	0
<b>Asia/Near East</b>			
China	1	30,000	30,000
Indonesia	1	5,000	5,000
Israel	1	5,000	5,000
Earth SCI/Terres			
<b>Worldwide</b>	3	0	0
Social Sciences			
<b>Worldwide</b>	2	2,204,500	4,409,000
<b>Asia/Near East</b>			
Region-wide Funding	1	100,000	100,000
<b>Latin America</b>			
Region-wide Funding	3	200,000	600,000
Mexico	1	100,000	100,000
Space Sciences			
<b>Worldwide</b>	1	0	0
<b>Asia/Near East</b>			
India	1	100,000	100,000
Techno/Industry			
<b>Worldwide</b>	1	600,000	600,000
<b>Asia/Near East</b>			
China	1	5,000	5,000
India	1	5,000	5,000

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
DOC (cont.)			
Techno/Industry (cont.)			
<b>Asia/Near East (cont.)</b>			
Pakistan	1	0	0
Saudi Arabia	1	250,000	250,000
Thailand	1	0	0
<b>Latin America</b>			
Brazil	1	150,000	150,000
Mexico	1	0	0
Venezuela	1	0	0
DOE			
Energy			
<b>Asia/Near East</b>			
China	3	0	0
Saudi Arabia	1	0	0
<b>Latin America</b>			
Brazil	1	0	0
Chile	1	0	0
Costa Rica	1	0	0
Mexico	1	0	0
Venezuela	2	0	0
DOI			
Agriculture			
<b>Africa</b>			
Region-wide Funding	1	300,000	300,000
<b>Asia/Near East</b>			
India	1	5,000	5,000
Israel	1	5,000	5,000
Earth SCI/Terres			
<b>Worldwide</b>			
	1	3,000,000	3,000,000
<b>Africa</b>			
Ethiopia	1	2,727	2,727
Ghana	1	2,727	2,727
Nigeria	1	5,000	5,000
<b>Asia/Near East</b>			
China	6	20,000	120,000
Egypt	1	5,000	5,000
India	4	78,750	315,000
Indonesia	1	2,727	2,727
Iran	1	2,727	2,727
Israel	1	5,000	5,000
Jordan	1	80,000	80,000

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

				Annual Funding (\$) per Country		
				-N-	Average	Total
DOI (cont.)						
Earth SCI/Terres (cont.)						
<b>Asia/Near East (cont.)</b>						
Nepal	1		0		0	
Pakistan	1		2,727		2,727	
Philippines	2		16,364		32,727	
Saudi Arabia	1		0		0	
United Arab Emirates	1		0		0	
<b>Latin America</b>						
Bolivia	2		50,000		100,000	
Brazil	2		3,864		7,727	
Chile	1		100,000		100,000	
Costa Rica	1		2,727		2,727	
Honduras	1		5,000		5,000	
Jamaica	1		2,727		2,727	
Mexico	3		20,909		62,727	
Peru	1		100,000		100,000	
Venezuela	4		3,182		12,727	
Environment						
<b>Asia/Near East</b>						
China	2		52,500		105,000	
Egypt	1		5,000		5,000	
India	2		62,500		125,000	
Israel	1		5,000		5,000	
Pakistan	1		5,000		5,000	
Sri Lanka	1		200,000		200,000	
<b>Latin America</b>						
Region-wide Funding	1		5,000		5,000	
Argentina	1		100,000		100,000	
Brazil	1		100,000		100,000	
Costa Rica	3		80,000		240,000	
Mexico	21		40,000		840,000	
Venezuela	2		42,500		85,000	
Other Life SCI						
<b>Africa</b>						
Burkina Faso	1		71,429		71,429	
Chad	1		71,429		71,429	
Ethiopia	1		71,429		71,429	
Mali	1		71,429		71,429	
Mauritania	1		71,429		71,429	
Senegal	1		71,429		71,429	
Sudan	1		71,429		71,429	

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

		Annual Funding (\$) per Country		
		-N-	Average	Total
<b>DOS</b>				
Health				
<b>Asia/Near East</b>				
	India	1	0	0
SCI Policy/Umbr				
<b>Asia/Near East</b>				
	China	1	0	0
	Egypt	1	0	0
	India	3	0	0
	Indonesia	1	0	0
	Mongolia	1	0	0
<b>Latin America</b>				
	Argentina	1	0	0
	Brazil	1	0	0
	Mexico	1	0	0
	Venezuela	1	0	0
<b>DOT</b>				
Techno/Industry				
<b>Asia/Near East</b>				
	China	4	0	0
<b>Latin America</b>				
	Brazil	1	0	0
	Mexico	1	0	0
<b>EPA</b>				
Environment				
<b>Africa</b>				
	Botswana	1	12,500	12,500
	Lesotho	1	12,500	12,500
	Malawi	1	12,500	12,500
	Tanzania	1	12,500	12,500
	Zambia	1	12,500	12,500
	Zimbabwe	1	12,500	12,500
<b>Asia/Near East</b>				
	China	7	203,143	1,422,000
	India	3	3,333	10,000
<b>Latin America</b>				
	Ecuador	1	50,000	50,000
	Mexico	2	2,500	5,000
<b>HUD</b>				
Social Sciences				
<b>Asia/Near East</b>				
	China	1	30,000	30,000

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>NASA</b>			
Earth SCI/Atmosp			
<b>Latin America</b>			
Brazil	1	3,000,000	3,000,000
Earth SCI/Terres			
<b>Worldwide</b>	1	900,000	900,000
<b>Asia/Near East</b>			
India	1	150,000	150,000
<b>Latin America</b>			
Chile	2	165,000	330,000
Mexico	1	300,000	300,000
Peru	1	75,000	75,000
Health			
<b>Latin America</b>			
Mexico	1	750,000	750,000
Space Sciences			
<b>Latin America</b>			
Argentina	1	275,000	275,000
<b>NRC</b>			
Energy			
<b>Asia/Near East</b>			
China	1	0	0
Egypt	1	0	0
Israel	1	0	0
Philippines	1	0	0
<b>Latin America</b>			
Argentina	1	0	0
Brazil	1	0	0
Mexico	2	0	0
Peru	1	0	0
<b>NSF</b>			
Chemistry			
<b>Africa</b>			
Morocco	1	9,548	9,548
Swaziland	1	6,670	6,670
<b>Asia/Near East</b>			
China	4	11,241	44,964
Egypt	2	10,000	19,999
India	3	9,123	27,368
Malaysia	1	9,750	9,750
<b>Latin America</b>			
Argentina	3	8,160	24,481

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
NSF (cont.)			
Chemistry (cont.)			
Latin America (cont.)			
Brazil	6	7,296	43,777
Chile	3	6,990	20,969
Costa Rica	1	8,770	8,770
Mexico	4	6,661	26,643
Uruguay	1	8,025	8,025
Earth SCI/Atmosp			
Asia/Near East			
China	4	71,755	287,019
Malaysia	1	124,319	124,319
Latin America			
Argentina	1	79,355	79,355
Chile	1	57,018	57,018
Ecuador	1	41,035	41,035
Venezuela	1	8,358	8,358
Earth SCI/Oceans			
Asia/Near East			
China	1	93,500	93,500
Indonesia	2	122,919	245,837
Israel	1	126,102	126,102
Kiribati	1	52,768	52,768
Philippines	2	69,777	139,553
Thailand	1	12,247	12,247
Latin America			
Argentina	3	133,566	400,699
Barbados	1	135,092	135,092
Brazil	10	115,901	1,159,008
Chile	5	159,304	796,521
Colombia	2	29,786	59,571
Venezuela	1	6,116	6,116
Earth SCI/Terres			
Africa			
Region-wide Funding	4	35,927	143,708
Kenya	9	83,994	755,950
Senegal	1	6,985	6,985
South Africa	2	32,558	65,115
Tanzania	2	92,554	185,107
Asia/Near East			
Bangladesh	1	58,906	58,906
China	25	24,412	610,303
Egypt	3	28,052	84,157
India	9	28,098	252,881

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>NSF (cont.)</b>			
<b>Earth SCI/Terres (cont.)</b>			
<b>Asia/Near East (cont.)</b>			
Indonesia	3	49,409	148,226
Israel	1	15,800	15,800
Maldives	1	56,451	56,451
Pakistan	6	49,519	297,116
Philippines	6	28,278	169,668
Thailand	1	7,385	7,385
<b>Latin America</b>			
Region-wide Funding	5	35,338	176,688
Argentina	5	13,765	68,827
Bolivia	3	25,109	75,328
Brazil	3	63,267	189,800
Chile	7	56,354	394,476
Colombia	3	15,967	47,900
Costa Rica	6	88,565	531,390
Ecuador	1	45,742	45,742
Guatemala	1	8,973	8,973
Jamaica	2	81,430	162,860
Mexico	7	34,776	243,429
Panama	1	63,119	63,119
Peru	1	37,546	37,546
Trinidad and Tobago	1	8,725	8,725
Venezuela	2	73,010	146,020
<b>Engineering</b>			
<b>Asia/Near East</b>			
Region-wide Funding	1	8,681	8,681
China	28	38,224	1,070,269
Egypt	2	12,400	24,800
India	27	35,322	953,705
Indonesia	2	10,426	20,851
Israel	1	19,358	19,358
Jordan	1	13,350	13,350
Pakistan	1	68,628	68,628
Singapore	2	14,064	28,127
Thailand	2	34,498	68,996
<b>Latin America</b>			
Argentina	10	17,395	173,954
Brazil	8	12,594	100,752
Chile	1	20,250	20,250
Jamaica	1	172,403	172,403
Mexico	4	16,156	64,625

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
NSF (cont.)			
Engineering (cont.)			
<b>Latin America (cont.)</b>			
Peru	1	8,656	8,656
Uruguay	1	8,435	8,435
Venezuela	2	54,106	108,211
<b>Environment</b>			
<b>Africa</b>			
Sudan	1	3,200	3,200
<b>Asia/Near East</b>			
India	2	47,910	95,820
Pakistan	1	24,917	24,917
Philippines	1	22,202	22,202
<b>Latin America</b>			
Mexico	1	233,251	233,251
<b>Mathematics</b>			
<b>Africa</b>			
Ghana	1	6,830	6,830
<b>Asia/Near East</b>			
China	3	14,140	42,420
<b>Latin America</b>			
Region-wide Funding	1	53,022	53,022
Argentina	3	3,945	11,834
Brazil	6	6,949	41,693
Chile	2	4,381	8,761
Colombia	2	4,217	8,433
Mexico	3	4,014	12,043
<b>Other Life SCI</b>			
<b>Africa</b>			
Kenya	1	118,528	118,528
Nigeria	1	9,298	9,298
Zimbabwe	1	53,832	53,832
<b>Asia/Near East</b>			
China	14	32,879	460,304
Egypt	2	10,089	20,178
India	7	55,708	389,954
Israel	1	9,990	9,990
Jordan	1	9,990	9,990
Malaysia	3	26,611	79,834
Pakistan	6	13,038	78,227
Philippines	1	393,374	393,374
Sri Lanka	1	9,304	9,304

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
NSF (cont.)			
Other Life SCI (cont.)			
<b>Latin America</b>			
Region-wide Funding	2	36,958	73,915
Argentina	7	14,808	103,656
Bahamas, The	1	2,658	2,658
Bolivia	3	38,572	115,716
Brazil	7	7,459	52,210
Chile	7	7,762	54,333
Colombia	1	63,894	63,894
Costa Rica	4	185,933	743,730
Ecuador	1	10,000	10,000
Guatemala	1	54,998	54,998
Guyana	1	2,000	2,000
Jamaica	1	2,658	2,658
Mexico	10	21,067	210,671
Paraguay	1	50,887	50,887
Venezuela	7	13,631	95,418
<b>Physics</b>			
<b>Asia/Near East</b>			
Region-wide Funding	1	205,000	205,000
China	12	14,239	170,870
India	13	27,805	361,470
Malaysia	1	10,165	10,165
Nepal	1	10,000	10,000
Pakistan	1	6,390	6,390
<b>Latin America</b>			
Region-wide Funding	1	15,625	15,625
Argentina	4	7,961	31,843
Brazil	7	7,050	49,351
Costa Rica	2	6,263	12,525
Mexico	9	55,381	498,431
<b>Social Sciences</b>			
<b>Africa</b>			
Region-wide Funding	3	25,746	77,237
Kenya	1	5,975	5,975
South Africa	1	66,608	66,608
<b>Asia/Near East</b>			
China	8	44,541	356,325
Egypt	1	13,333	13,333
India	9	56,668	510,013
Indonesia	1	37,114	37,114
Israel	2	72,256	144,511
Thailand	1	49,977	49,977

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
NSF (cont.)			
Social Science (cont.)			
<b>Latin America</b>			
Colombia	1	5,317	5,317
Costa Rica	1	9,942	9,942
El Salvador	1	9,942	9,942
Jamaica	1	7,500	7,500
Mexico	3	13,884	41,651
Nicaragua	1	9,942	9,942
Space Sciences			
<b>Asia/Near East</b>			
China	3	13,711	41,134
India	6	15,182	91,091
<b>Latin America</b>			
Argentina	1	1,673	1,673
Brazil	2	1,532	3,063
Chile	11	41,746	459,211
Venezuela	1	8,649	8,649
USAID			
Agriculture			
<b>Worldwide</b>	30	965,278	28,958,333
<b>Africa</b>			
Region-wide Funding	11	1,306,259	14,368,850
Burkina Faso	1	75,000	75,000
Cameroon	5	53,000	265,000
Cape Verde	1	200,000	200,000
Chad	1	100,000	100,000
Gambia, The	1	100,000	100,000
Kenya	2	283,334	566,667
Malawi	1	100,000	100,000
Mali	5	187,950	939,750
Morocco	3	1,222,222	3,666,667
Mozambique	2	290,000	580,000
Niger	2	391,875	783,750
Rwanda	3	125,000	375,000
Sierra Leone	1	75,000	75,000
Tanzania	1	37,000	37,000
Uganda	2	200,000	400,000
Zambia	1	100,000	100,000
Zimbabwe	3	50,667	152,000
<b>Asia/Near East</b>			
Region-wide Funding	2	80,000	160,000
Afghanistan	1	1,200,000	1,200,000

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
USAID (cont.)			
Agriculture (cont.)			
Asia/Near East (cont.)			
Egypt	3	1,633,333	4,900,000
India	2	556,500	1,113,000
Indonesia	7	321,488	2,250,417
Jordan	1	1,500,000	1,500,000
Nepal	3	366,667	1,100,000
Oman	3	3,166,667	9,500,000
Pakistan	6	1,516,667	9,100,000
Philippines	4	1,765,083	7,060,333
Thailand	3	333,333	1,000,000
Yemen	2	972,000	1,944,000
Latin America			
Region-wide Funding	2	950,000	1,900,000
Barbados	2	75,000	150,000
Belize	2	75,000	150,000
Bolivia	4	161,917	647,667
Brazil	1	466,667	466,667
Costa Rica	1	233,333	233,333
Dominican Republic	3	236,333	709,000
Ecuador	1	900,000	900,000
Guatemala	2	74,000	148,000
Haiti	2	1,350,000	2,700,000
Honduras	1	225,000	225,000
Jamaica	2	350,000	700,000
Peru	3	458,472	1,375,417
Education			
Worldwide	3	566,667	1,700,000
Africa			
Region-wide Funding	1	750,000	750,000
Botswana	2	387,500	775,000
Burundi	1	212,500	212,500
Cameroon	1	100,000	100,000
Ghana	1	375,000	375,000
Guinea	1	400,000	400,000
Malawi	1	375,000	375,000
Mali	2	237,500	475,000
South Africa	1	375,000	375,000
Tunisia	1	3,800,000	3,800,000
Zimbabwe	1	325,000	325,000
Asia/Near East			
Egypt	2	2,606,250	5,212,500
Indonesia	2	306,250	612,500

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
USAID (cont.)			
Education (cont.)			
<b>Asia/Near East (cont.)</b>			
Jordan	2	293,750	587,500
Nepal	2	362,500	725,000
Pakistan	3	1,104,167	3,312,500
Papua New Guinea	1	325,000	325,000
Philippines	1	100,000	100,000
Sri Lanka	2	293,750	587,500
Thailand	1	212,500	212,500
Yemen	1	200,000	200,000
<b>Latin America</b>			
Region-wide Funding	2	390,000	780,000
Belize	1	550,000	550,000
Bolivia	1	325,000	325,000
Costa Rica	2	212,500	425,000
Dominican Republic	1	325,000	325,000
El Salvador	1	325,000	325,000
Grenada	1	550,000	550,000
Guatemala	3	425,000	1,275,000
Haiti	2	600,000	1,200,000
Honduras	3	204,167	612,500
Jamaica	1	75,000	75,000
Peru	1	0	0
Energy			
<b>Worldwide</b>	5	546,000	2,730,000
<b>Africa</b>			
Morocco	1	700,000	700,000
Uganda	1	15,000	15,000
Zaire	1	15,000	15,000
<b>Asia/Near East</b>			
Region-wide Funding	1	100,000	100,000
Egypt	3	2,500,333	7,501,000
India	7	124,524	871,667
Indonesia	4	82,917	331,667
Pakistan	3	9,666,667	29,000,000
Philippines	2	375,000	750,000
Thailand	1	50,000	50,000
<b>Latin America</b>			
Brazil	2	133,334	266,667
Costa Rica	2	40,000	80,000
Honduras	1	15,000	15,000
Jamaica	1	50,000	50,000

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
USAID (cont.)			
Environment			
<b>Worldwide</b>	5	2,070,000	10,350,000
<b>Africa</b>			
Region-wide Funding	2	2,035,715	4,071,429
Cameroon	1	71,429	71,429
Kenya	1	30,000	30,000
Madagascar	1	71,429	71,429
Mali	1	150,000	150,000
Tunisia	1	30,000	30,000
Zaire	1	71,429	71,429
<b>Asia/Near East</b>			
Bangladesh	1	71,429	71,429
Indonesia	1	71,429	71,429
Jordan	1	100,000	100,000
Nepal	1	71,429	71,429
Sri Lanka	1	350,000	350,000
Thailand	3	193,333	580,000
<b>Latin America</b>			
Region-wide Funding	1	30,000	30,000
Bolivia	1	23,000	23,000
Brazil	1	100,000	100,000
Ecuador	4	779,500	3,118,000
Guatemala	1	15,000	15,000
Health			
<b>Worldwide</b>	29	2,216,379	64,275,000
<b>Africa</b>			
Region-wide Funding	2	105,000	210,000
Botswana	1	75,000	75,000
Kenya	4	2,121,131	8,484,524
Morocco	1	200,000	200,000
Nigeria	2	108,929	217,857
Sierra Leone	1	75,000	75,000
<b>Asia/Near East</b>			
Region-wide Funding	2	487,500	975,000
Afghanistan	1	1,000,000	1,000,000
Bangladesh	2	662,500	1,325,000
Egypt	2	587,500	1,175,000
India	2	650,000	1,300,000
Indonesia	3	536,508	1,609,524
Jordan	1	200,000	200,000
Pakistan	6	1,473,810	8,842,857
Papua New Guinea	1	200,000	200,000
Philippines	1	500,000	500,000

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
USAID (cont.)			
Health (cont.)			
<b>Asia/Near East (cont.)</b>			
Thailand	3	536,508	1,609,524
Yemen	1	300,000	300,000
<b>Latin America</b>			
Region-wide Funding	3	125,000	375,000
Belize	2	75,000	150,000
Brazil	1	75,000	75,000
Dominican Republic	3	150,000	450,000
Haiti	1	75,000	75,000
Mexico	2	158,929	317,857
Peru	2	108,929	217,857
<b>Population</b>			
<b>Worldwide</b>	3	10,466,667	31,400,000
<b>Africa</b>			
Region-wide Funding	1	100,000	100,000
Cameroon	1	533,333	533,333
Nigeria	1	533,333	533,333
Rwanda	1	533,333	533,333
Tanzania	1	533,333	533,333
<b>Asia/Near East</b>			
Region-wide Funding	1	100,000	100,000
Egypt	1	3,200,000	3,200,000
India	2	250,000	500,000
Indonesia	1	533,333	533,333
Jordan	1	533,333	533,333
Pakistan	1	533,333	533,333
Yemen	1	533,333	533,333
<b>Latin America</b>			
Dominican Republic	1	5,000	5,000
Haiti	1	100,000	100,000
Paraguay	1	533,333	533,333
<b>Social Sciences</b>			
<b>Worldwide</b>	2	800,000	1,600,000
<b>Africa</b>			
Kenya	1	60,000	60,000
Senegal	1	400,000	400,000
Tunisia	2	130,000	260,000
<b>Asia/Near East</b>			
India	1	200,000	200,000
<b>Latin America</b>			
Bolivia	2	75,000	150,000
Guatemala	1	122,000	122,000

Table 5: S&T Funding by Agency, Sector, Region and Country  
(Continued)

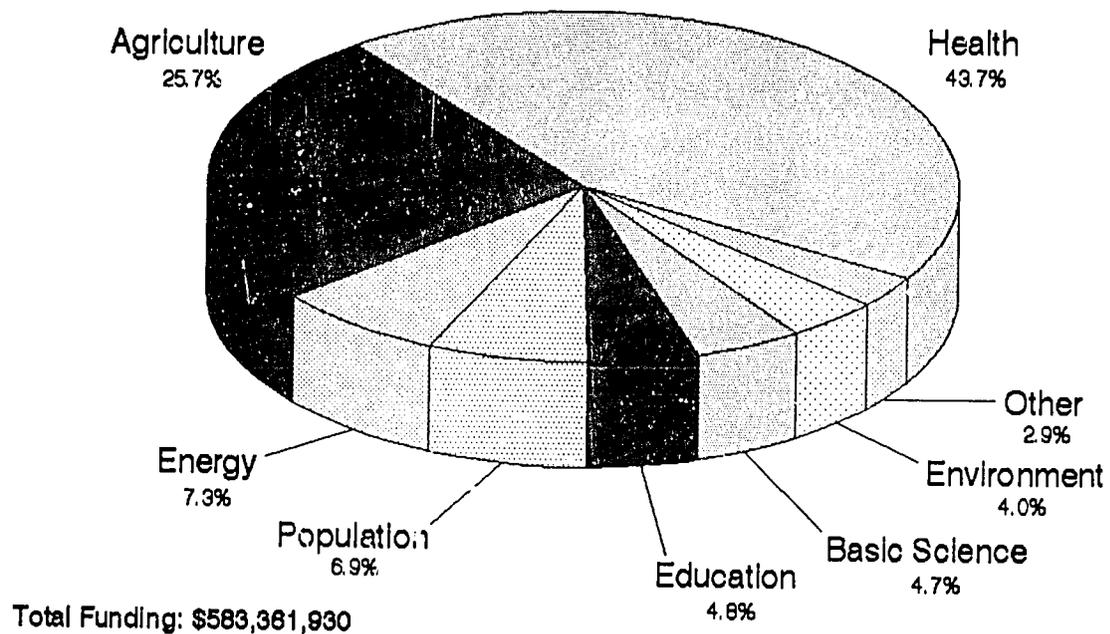
	Annual Funding (\$) per Country		
	-N-	Average	Total
USAID (cont.)			
Social Sciences (cont.)			
Latin America (cont.)			
Haiti	1	75,000	75,000
Techno/Industry			
<b>Asia/Near East</b>			
Egypt	1	2,700,000	2,700,000
India	1	1,600,000	1,600,000
Jordan	2	400,000	800,000
Philippines	1	200,000	200,000
Thailand	1	1,200,000	1,200,000
<b>Latin America</b>			
Costa Rica	1	140,000	140,000
USDA			
Agriculture			
<b>Worldwide</b>	2	891,834	1,783,667
<b>Africa</b>			
Ghana	1	2,000	2,000
Libya	1	9,425,000	9,425,000
Zimbabwe	1	30,000	30,000
<b>Asia/Near East</b>			
Region-wide Funding	1	176,000	176,000
China	4	41,250	165,000
Egypt	1	30,000	30,000
India	49	3,163	155,000
Mongolia	2	17,500	35,000
Papua New Guinea	1	18,000	18,000
<b>Latin America</b>			
Argentina	1	5,000	5,000
Belize	1	9,425,000	9,425,000
Brazil	12	7,417	89,000
Colombia	1	1,150,000	1,150,000
Costa Rica	1	100,000	100,000
Guatemala	3	3,738,056	11,214,167
Mexico	4	2,962,417	11,849,667
Panama	1	1,150,000	1,150,000
Peru	1	5,000	5,000
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

# **CHAPTER IV**

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## **SECTOR PERSPECTIVES**

## S & T Funding by Sector



## Sector Funding: USAID & Other Agencies

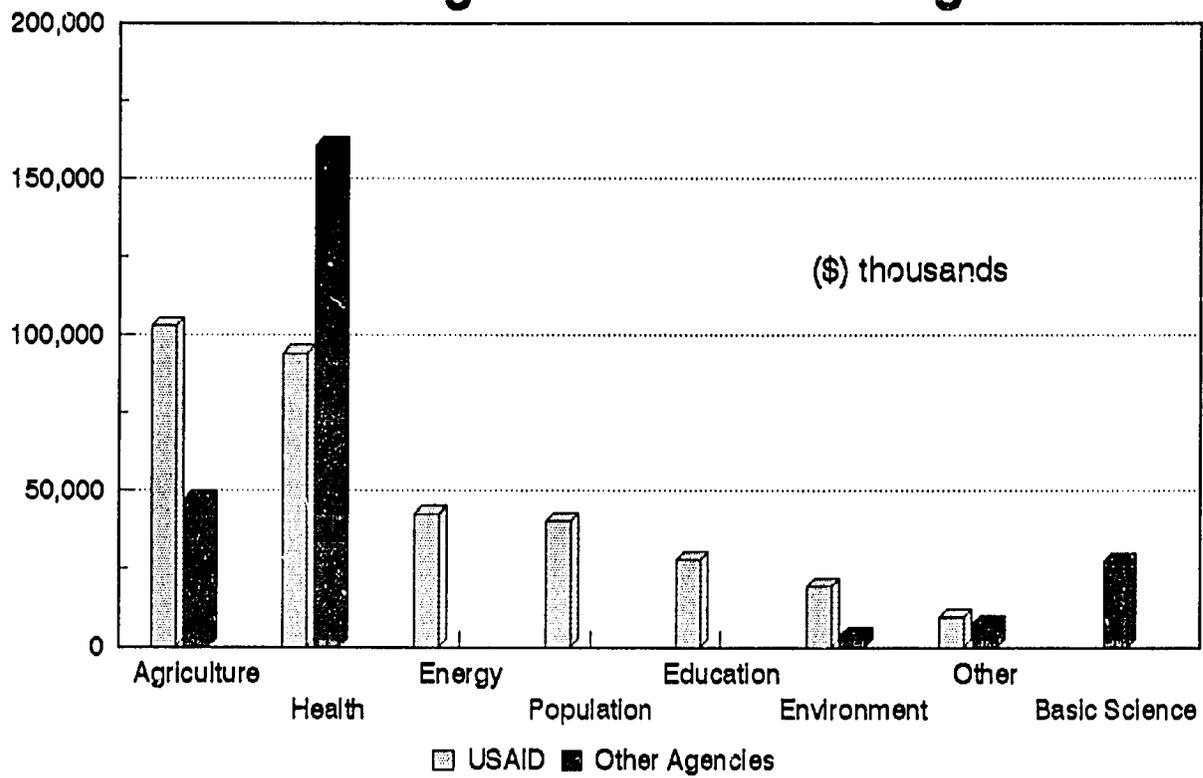


Table 6: S&T Funding by Sector

Sector	Annual Funding (\$) per Sector		
	-N-	Average	Total
Agriculture	230	652,580	150,093,352
Chemistry	30	8,365	250,964
Earth SCI/Atmosp	13	292,085	3,797,104
Earth SCI/Oceans	34	96,089	3,267,014
Earth SCI/Terres	172	62,695	10,783,578
Education	52	538,077	27,980,000
Energy	54	786,593	42,476,001
Engineering	95	30,885	2,934,051
Environment	91	254,202	23,132,393
Health	220	1,159,250	255,035,002
Mathematics	21	8,811	185,036
Other Life SCI	100	37,696	3,769,560
Physics	52	26,378	1,371,670
Population	19	2,116,052	40,204,997
SCI Policy/Umbr	11	0	0
Social Sciences	54	175,026	9,451,387
Space Sciences	27	36,290	979,821
Techno/Industry	22	347,727	7,650,000
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 7: S&T Funding by Sector and Agency

	Annual Funding (\$) per Agency		
	-N-	Average	Total
<b>Sector</b>			
Federal Agency			
<b>Agriculture</b>			
DOI	3	103,333	310,000
USAID	139	740,833	102,975,851
USDA	88	531,903	46,807,501
<b>Chemistry</b>			
NSF	30	8,365	250,964
<b>Earth SCI/Atmosp</b>			
DOC	3	66,667	200,000
NASA	1	3,000,000	3,000,000
NSF	9	66,345	597,104
<b>Earth SCI/Oceans</b>			
DOC	4	10,000	40,000
NSF	30	107,567	3,227,014
<b>Earth SCI/Terres</b>			
DOC	3	0	0
DOI	41	96,829	3,969,997
NASA	6	292,500	1,755,000
NSF	122	41,464	5,058,581
<b>Education</b>			
USAID	52	538,077	27,980,000
<b>Energy</b>			
DOE	10	0	0
NRC	9	0	0
USAID	35	1,213,600	42,476,001
<b>Engineering</b>			
NSF	95	30,885	2,934,051
<b>Environment</b>			
DOI	37	49,054	1,815,000
EPA	19	82,211	1,562,000
NSF	6	63,232	379,390
USAID	29	668,138	19,376,003
<b>Health</b>			
DHHS	139	1,151,439	160,050,002
DOS	1	0	0

Table 7: S&amp;T Funding by Sector and Agency

(Continued)

	Annual Funding (\$) per Agency		
	-N-	Average	Total
<b>Health (cont.)</b>			
NASA	1	750,000	750,000
USAID	79	1,192,848	94,235,000
<b>Mathematics</b>			
NSF	21	8,811	185,036
<b>Other Life SCI</b>			
DOI	7	71,429	500,003
NSF	93	35,157	3,269,557
<b>Physics</b>			
NSF	52	26,378	1,371,670
<b>Population</b>			
USAID	19	2,166,052	40,204,997
<b>SCI Policy/Umbr</b>			
DOS	11	0	0
<b>Social Sciences</b>			
DOC	7	744,143	5,209,000
HUD	1	30,000	30,000
NSF	35	38,440	1,345,387
USAID	11	260,636	2,867,000
<b>Space Sciences</b>			
DOC	2	50,000	100,000
NASA	1	275,000	275,000
NSF	24	25,201	604,821
<b>Techno/Industry</b>			
DOC	9	112,222	1,010,000
DOT	6	0	0
USAID	7	948,571	6,640,000
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 8: S&T Funding by Sector and Region

Sector Region	Annual Funding (\$) per Region		
	-N-	Average	Total
<b>Agriculture</b>			
Worldwide	32	960,688	30,742,000
Africa	50	652,834	32,641,684
Asia/Near East	97	426,977	41,416,750
Latin America	51	888,096	45,292,918
<b>Chemistry</b>			
Africa	2	8,109	16,218
Asia/Near East	10	10,208	102,081
Latin America	18	7,370	132,665
<b>Earth SCI/Atmosp</b>			
Worldwide	2	0	0
Asia/Near East	6	101,890	611,338
Latin America	5	637,153	3,185,766
<b>Earth SCI/Oceans</b>			
Worldwide	1	0	0
Asia/Near East	11	64,546	710,007
Latin America	22	116,228	2,557,007
<b>Earth SCI/Terres</b>			
Worldwide	5	780,000	3,900,000
Africa	21	55,587	1,167,319
Asia/Near East	78	30,985	2,416,801
Latin America	68	48,521	3,299,458
<b>Education</b>			
Worldwide	3	566,667	1,700,000
Africa	13	612,500	7,962,500
Asia/Near East	17	698,529	11,875,000
Latin America	19	339,079	6,442,500
<b>Energy</b>			
Worldwide	5	546,000	2,730,000
Africa	3	243,333	730,000
Asia/Near East	29	1,331,184	38,604,334
Latin America	17	24,216	411,667
<b>Engineering</b>			
Asia/Near East	67	33,982	2,276,765
Latin America	28	23,475	657,286

Table 8: S&amp;T Funding by Sector and Region

(Continued)

	Annual Funding (\$) per Region		
	-N-	Average	Total
<b>Environment</b>			
Worldwide	5	2,070,000	10,350,000
Africa	15	304,928	4,573,916
Asia/Near East	30	108,808	3,264,226
Latin America	41	120,591	4,944,251
<b>Health</b>			
Worldwide	39	3,445,513	134,375,000
Africa	39	629,005	24,531,210
Asia/Near East	94	759,638	71,405,953
Latin America	48	515,059	24,722,839
<b>Mathematics</b>			
Africa	1	6,830	6,830
Asia/Near East	3	14,140	42,420
Latin America	17	7,987	135,786
<b>Other Life SCI</b>			
Africa	10	68,166	681,661
Asia/Near East	36	40,310	1,451,155
Latin America	54	30,310	1,636,744
<b>Physics</b>			
Asia/Near East	29	26,341	763,895
Latin America	23	26,425	607,775
<b>Population</b>			
Worldwide	3	10,466,667	31,400,000
Africa	5	446,666	2,233,332
Asia/Near East	8	741,667	5,933,332
Latin America	3	212,778	638,333
<b>SCI Policy/Umbr</b>			
Asia/Near East	7	0	0
Latin America	4	0	0
<b>Social Sciences</b>			
Worldwide	4	1,502,250	6,009,000
Africa	9	96,647	869,820
Asia/Near East	25	57,651	1,441,273
Latin America	16	70,706	1,131,294

Table 8: S&amp;T Funding by Sector and Region

(Continued)

	Annual Funding (\$) per Region		
	-N-	Average	Total
<b>Space Sciences</b>			
Worldwide	1	0	0
Asia/Near East	10	23,223	232,225
Latin America	16	46,725	747,596
<b>Techno/Industry</b>			
Worldwide	1	600,000	600,000
Asia/Near East	15	450,667	6,760,000
Latin America	6	48,333	290,000
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 9: S&T Funding by Sector, Region and Country

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Sector</b>			
<b>Region</b>			
<b>Country</b>			
<b>Agriculture</b>			
<b>Worldwide</b>	32	960,688	30,742,000
<b>Africa</b>			
Region-wide Funding	12	1,222,404	14,668,850
Burkina Faso	1	75,000	75,000
Cameroon	5	53,000	265,000
Cape Verde	1	200,000	200,000
Chad	1	100,000	100,000
Gambia, The	1	100,000	100,000
Ghana	1	2,000	2,000
Kenya	2	283,334	566,667
Libya	1	9,425,000	9,425,000
Malawi	1	100,000	100,000
Mali	5	187,950	939,750
Morocco	3	1,222,222	3,666,667
Mozambique	2	290,000	580,000
Niger	2	391,875	783,750
Rwanda	3	125,000	375,000
Sierra Leone	1	75,000	75,000
Tanzania	1	37,000	37,000
Uganda	2	200,000	400,000
Zambia	1	100,000	100,000
Zimbabwe	4	45,500	182,000
<b>Asia/Near East</b>			
Region-wide Funding	3	112,000	336,000
Afghanistan	1	1,200,000	1,200,000
China	4	41,250	165,000
Egypt	4	1,232,500	4,930,000
India	52	24,481	1,273,000
Indonesia	7	321,488	2,250,417
Israel	1	5,000	5,000
Jordan	1	1,500,000	1,500,000
Mongolia	2	17,500	35,000
Nepal	3	366,667	1,100,000
Oman	3	3,166,667	9,500,000
Pakistan	6	1,516,667	9,100,000
Papua New Guinea	1	18,000	18,000
Philippines	4	1,765,083	7,060,333
Thailand	3	333,333	1,000,000
Yemen	2	972,000	1,944,000

Table 9: S&T Funding by Sector, Region and Country (Continued)

Annual Funding (\$) per Country			
	-N-	Average	Total
<b>Agriculture (cont.)</b>			
<b>Latin America</b>			
Region-wide Funding	2	950,000	1,900,000
Argentina	1	5,000	5,000
Barbados	2	75,000	150,000
Belize	3	3,191,667	9,575,000
Bolivia	4	161,917	647,667
Brazil	13	42,744	555,667
Colombia	1	1,150,000	1,150,000
Costa Rica	2	166,667	333,333
Dominican Republic	3	236,333	709,000
Ecuador	1	900,000	900,000
Guatemala	5	2,272,433	11,362,167
Haiti	2	1,350,000	2,700,000
Honduras	1	225,000	225,000
Jamaica	2	350,000	700,000
Mexico	4	2,962,417	11,849,667
Panama	1	1,150,000	1,150,000
Peru	4	345,104	1,380,417
<b>Chemistry</b>			
<b>Africa</b>			
Morocco	1	9,548	9,548
Swaziland	1	6,670	6,670
<b>Asia/Near East</b>			
China	4	11,241	44,964
Egypt	2	10,000	19,999
India	3	9,123	27,368
Malaysia	1	9,750	9,750
<b>Latin America</b>			
Argentina	3	8,160	24,481
Brazil	6	7,296	43,777
Chile	3	6,990	20,969
Costa Rica	1	8,770	8,770
Mexico	4	6,661	26,643
Uruguay	1	8,025	8,025
<b>Earth SCI/Atmosp</b>			
<b>Worldwide</b>	2	0	0
<b>Asia/Near East</b>			
China	4	71,755	287,019
India	1	200,000	200,000
Malaysia	1	124,319	124,319

Table 9: S&T Funding by Sector, Region and Country (Continued)

Annual Funding (\$) per Country			
	-N-	Average	Total
<b>Earth SCI/Atmosp (cont.)</b>			
<b>Latin America</b>			
Argentina	1	79,355	79,355
Brazil	1	3,000,000	3,000,000
Chile	1	57,018	57,018
Ecuador	1	41,035	41,035
Venezuela	1	8,358	8,358
<b>Earth SCI/Oceans</b>			
<b>Worldwide</b>	1	0	0
<b>Asia/Near East</b>			
China	2	61,750	123,500
Indonesia	3	83,612	250,837
Israel	2	65,551	131,102
Kiribati	1	52,768	52,768
Philippines	2	69,777	139,553
Thailand	1	12,247	12,247
<b>Latin America</b>			
Argentina	3	133,566	400,699
Barbados	1	135,092	135,092
Brazil	10	115,901	1,159,008
Chile	5	159,304	796,521
Colombia	2	29,786	59,571
Venezuela	1	6,116	6,116
<b>Earth SCI/Terres</b>			
<b>Worldwide</b>	5	780,000	3,900,000
<b>Africa</b>			
Region-wide Funding	4	35,927	143,708
Ethiopia	1	2,727	2,727
Ghana	1	2,727	2,727
Kenya	9	83,994	755,950
Nigeria	1	5,000	5,000
Senegal	1	6,985	6,985
South Africa	2	32,558	65,115
Tanzania	2	92,554	185,107
<b>Asia/Near East</b>			
Bangladesh	1	58,906	58,906
China	31	23,558	730,303
Egypt	4	22,289	89,157
India	14	51,277	717,881
Indonesia	4	37,738	150,953
Iran	1	2,727	2,727
Israel	2	10,400	20,800
Jordan	1	80,000	80,000

Table 9: S&T Funding by Sector, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
Earth SCI/Terres (cont.)			
<b>Asia/Near East (cont.)</b>			
Maldives	1	56,451	56,451
Nepal	1	0	0
Pakistan	7	42,835	299,843
Philippines	8	25,299	202,395
Saudi Arabia	1	0	0
Thailand	1	7,385	7,385
United Arab Emirates	1	0	0
<b>Latin America</b>			
Region-wide Funding	5	35,338	176,688
Argentina	5	13,765	68,327
Bolivia	5	35,066	175,328
Brazil	5	39,505	197,527
Chile	10	82,448	824,476
Colombia	3	15,967	47,900
Costa Rica	7	76,302	534,117
Ecuador	1	45,742	45,742
Guatemala	1	8,973	8,973
Honduras	1	5,000	5,000
Jamaica	3	55,196	165,587
Mexico	11	55,105	606,156
Panama	1	63,119	63,119
Peru	3	70,849	212,546
Trinidad and Tobago	1	8,725	8,725
Venezuela	6	26,458	158,747
Education			
<b>Worldwide</b>	3	566,667	1,700,000
<b>Africa</b>			
Region-wide Funding	1	750,000	750,000
Botswana	2	387,500	775,000
Burundi	1	212,500	212,500
Cameroon	1	100,000	100,000
Ghana	1	375,000	375,000
Guinea	1	400,000	400,000
Malawi	1	375,000	375,000
Mali	2	237,500	475,000
South Africa	1	375,000	375,000
Tunisia	1	3,800,000	3,800,000
Zimbabwe	1	325,000	325,000
<b>Asia/Near East</b>			
Egypt	2	2,606,250	5,212,500
Indonesia	2	306,250	612,500
Jordan	2	293,750	587,500

Table 9: S&T Funding by Sector, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Education (cont.)</b>			
<b>Asia/Near East (cont.)</b>			
Nepal	2	362,500	725,000
Pakistan	3	1,104,167	3,312,500
Papua New Guinea	1	325,000	325,000
Philippines	1	100,000	100,000
Sri Lanka	2	293,750	587,500
Thailand	1	212,500	212,500
Yemen	1	200,000	200,000
<b>Latin America</b>			
Region-wide Funding	2	390,000	780,000
Belize	1	550,000	550,000
Bolivia	1	325,000	325,000
Costa Rica	2	212,500	425,000
Dominican Republic	1	325,000	325,000
El Salvador	1	325,000	325,000
Grenada	1	550,000	550,000
Guatemala	3	425,000	1,275,000
Haiti	2	600,000	1,200,000
Honduras	3	204,167	612,500
Jamaica	1	75,000	75,000
Peru	1	0	0
<b>Energy</b>			
<b>Worldwide</b>	5	546,000	2,730,000
<b>Africa</b>			
Morocco	1	700,000	700,000
Uganda	1	15,000	15,000
Zaire	1	15,000	15,000
<b>Asia/Near East</b>			
Region-wide Funding	1	100,000	100,000
China	4	0	0
Egypt	4	1,875,250	7,501,000
India	7	124,524	871,667
Indonesia	4	82,917	331,667
Israel	1	0	0
Pakistan	3	9,666,667	29,000,000
Philippines	3	250,000	750,000
Saudi Arabia	1	0	0
Thailand	1	50,000	50,000
<b>Latin America</b>			
Argentina	1	0	0
Brazil	4	66,667	266,667
Chile	1	0	0
Costa Rica	3	26,667	80,000

Table 9: S&T Funding by Sector, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Energy (cont.)</b>			
<b>Latin America (cont.)</b>			
Honduras	1	15,000	15,000
Jamaica	1	50,000	50,000
Mexico	3	0	0
Peru	1	0	0
Venezuela	2	0	0
<b>Engineering</b>			
<b>Asia/Near East</b>			
Region-wide Funding	1	8,681	8,681
China	28	38,224	1,070,269
Egypt	2	12,400	24,800
India	27	35,322	953,705
Indonesia	2	10,426	20,851
Israel	1	19,358	19,358
Jordan	1	13,350	13,350
Pakistan	1	68,628	68,628
Singapore	2	14,064	28,127
Thailand	2	34,498	68,996
<b>Latin America</b>			
Argentina	10	17,395	173,954
Brazil	8	12,594	100,752
Chile	1	20,250	20,250
Jamaica	1	172,403	172,403
Mexico	4	16,156	64,625
Peru	1	8,656	8,656
Uruguay	1	8,435	8,435
Venezuela	2	54,106	108,211
<b>Environment</b>			
<b>Worldwide</b>	5	2,070,000	10,350,000
<b>Africa</b>			
Region-wide Funding	2	2,035,715	4,071,429
Botswana	1	12,500	12,500
Cameroon	1	71,429	71,429
Kenya	1	30,000	30,000
Lesotho	1	12,500	12,500
Madagascar	1	71,429	71,429
Malawi	1	12,500	12,500
Mali	1	150,000	150,000
Sudan	1	3,200	3,200
Tanzania	1	12,500	12,500
Tunisia	1	30,000	30,000
Zaire	1	71,429	71,429

Table 9: S&T Funding by Sector, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Environment (cont.)</b>			
<b>Africa (cont.)</b>			
Zambia	1	12,500	12,500
Zimbabwe	1	12,500	12,500
<b>Asia/Near East</b>			
Bangladesh	1	71,429	71,429
China	9	169,667	1,527,000
Egypt	1	5,000	5,000
India	7	32,974	230,820
Indonesia	1	71,429	71,429
Israel	1	5,000	5,000
Jordan	1	100,000	100,000
Nepal	1	71,429	71,429
Pakistan	2	14,959	29,917
Philippines	1	22,202	22,202
Sri Lanka	2	275,000	550,000
Thailand	3	193,333	580,000
<b>Latin America</b>			
Region-wide Funding	2	17,500	35,000
Argentina	1	100,000	100,000
Bolivia	1	23,000	23,000
Brazil	2	100,000	200,000
Costa Rica	3	80,000	240,000
Ecuador	5	633,600	3,168,000
Guatemala	1	15,000	15,000
Mexico	24	44,927	1,078,251
Venezuela	2	42,500	85,000
<b>Health</b>			
<b>Worldwide</b>	<b>39</b>	<b>3,445,513</b>	<b>134,375,000</b>
<b>Africa</b>			
Region-wide Funding	3	112,857	338,571
Botswana	2	187,500	375,000
Burundi	1	700,000	700,000
Cameroon	1	128,571	128,571
Central African Rep.	1	700,000	700,000
Gambia, The	1	300,000	300,000
Guinea	1	700,000	700,000
Ivory Coast	1	700,000	700,000
Kenya	5	1,722,619	8,613,095
Lesotho	1	700,000	700,000
Liberia	2	414,286	828,571
Malawi	1	500,000	500,000
Mali	1	1,437,500	1,437,500
Morocco	1	200,000	200,000

Table 9: S&T Funding by Sector, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Health (cont.)</b>			
<b>Africa (cont.)</b>			
Nigeria	4	329,464	1,317,857
Rwanda	1	454,545	454,545
Senegal	1	500,000	500,000
Sierra Leone	1	75,000	75,000
Sudan	1	625,000	625,000
Swaziland	1	700,000	700,000
Tanzania	1	45,455	45,455
Togo	1	700,000	700,000
Uganda	1	500,000	500,000
Zaire	5	678,409	3,392,045
<b>Asia/Near East</b>			
Region-wide Funding	2	487,500	975,000
Afghanistan	1	1,000,000	1,000,000
Bangladesh	2	662,500	1,325,000
China	11	1,174,764	12,922,402
Egypt	11	1,170,853	12,879,383
India	22	828,274	18,222,025
Indonesia	6	415,440	2,492,640
Israel	1	625,000	625,000
Jordan	2	122,728	245,455
Malaysia	3	266,667	800,000
Nepal	1	375,000	375,000
Pakistan	11	1,029,688	11,326,569
Papua New Guinea	1	200,000	200,000
Philippines	5	300,000	1,500,000
Seychelles	1	45,455	45,455
Sri Lanka	1	400,000	400,000
Thailand	10	542,202	5,422,024
Turkey	1	50,000	50,000
Western Samoa	1	300,000	300,000
Yemen	1	300,000	300,000
<b>Latin America</b>			
Region-wide Funding	6	98,215	589,287
Barbados	1	375,000	375,000
Belize	2	75,000	150,000
Brazil	6	668,750	4,012,500
Chile	1	45,455	45,455
Colombia	2	221,429	442,858
Dominican Republic	3	150,000	450,000
Guatemala	1	454,545	454,545
Haiti	1	75,000	75,000
Mexico	15	925,462	13,881,927
Peru	5	167,662	838,312
Venezuela	5	681,591	3,407,955

Table 9: S&T Funding by Sector, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Mathematics</b>			
<b>Africa</b>			
Ghana	1	6,830	6,830
<b>Asia/Near East</b>			
China	3	14,140	42,420
<b>Latin America</b>			
Region-wide Funding	1	53,022	53,022
Argentina	3	3,945	11,834
Brazil	6	6,949	41,693
Chile	2	4,381	8,761
Colombia	2	4,217	8,433
Mexico	3	4,014	12,043
<b>Other Life SCI</b>			
<b>Africa</b>			
Burkina Faso	1	71,429	71,429
Chad	1	71,429	71,429
Ethiopia	1	71,429	71,429
Kenya	1	118,528	118,528
Mali	1	71,429	71,429
Mauritania	1	71,429	71,429
Nigeria	1	9,298	9,298
Senegal	1	71,429	71,429
Sudan	1	71,429	71,429
Zimbabwe	1	53,832	53,832
<b>Asia/Near East</b>			
China	14	32,879	460,304
Egypt	2	10,089	20,178
India	7	55,708	389,954
Israel	1	9,990	9,990
Jordan	1	9,990	9,990
Malaysia	3	26,611	79,834
Pakistan	6	13,038	78,227
Philippines	1	393,374	393,374
Sri Lanka	1	9,304	9,304
<b>Latin America</b>			
Region-wide Funding	2	36,958	73,915
Argentina	7	14,808	103,656
Bahamas, The	1	2,658	2,658
Bolivia	3	38,572	115,716
Brazil	7	7,459	52,210
Chile	7	7,762	54,333
Colombia	1	63,894	63,894
Costa Rica	4	185,933	743,730
Ecuador	1	10,000	10,000

Table 9: S&T Funding by Sector, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Other Life SCI (cont.)</b>			
<b>Latin America (cont.)</b>			
Guatemala	1	54,998	54,998
Guyana	1	2,000	2,000
Jamaica	1	2,658	2,658
Mexico	10	21,067	210,671
Paraguay	1	50,887	50,887
Venezuela	7	13,631	95,418
<b>Physics</b>			
<b>Asia/Near East</b>			
Region-wide Funding	1	205,000	205,000
China	12	14,239	170,870
India	13	27,805	361,470
Malaysia	1	10,165	10,165
Nepal	1	10,000	10,000
Pakistan	1	6,390	6,390
<b>Latin America</b>			
Region-wide Funding	1	15,625	15,625
Argentina	4	7,961	31,843
Brazil	7	7,050	49,351
Costa Rica	2	6,263	12,525
Mexico	9	55,381	498,431
<b>Population</b>			
<b>Worldwide</b>	3	10,466,667	31,400,000
<b>Africa</b>			
Region-wide Funding	1	100,000	100,000
Cameroon	1	533,333	533,333
Nigeria	1	533,333	533,333
Rwanda	1	533,333	533,333
Tanzania	1	533,333	533,333
<b>Asia/Near East</b>			
Region-wide Funding	1	100,000	100,000
Egypt	1	3,200,000	3,200,000
India	2	250,000	500,000
Indonesia	1	533,333	533,333
Jordan	1	533,333	533,333
Pakistan	1	533,333	533,333
Yemen	1	533,333	533,333
<b>Latin America</b>			
Dominican Republic	1	5,000	5,000
Haiti	1	100,000	100,000
Paraguay	1	533,333	533,333

Table 9: S&T Funding by Sector, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>SCI Policy/Umbr</b>			
<b>Asia/Near East</b>			
China	1	0	0
Egypt	1	0	0
India	3	0	0
Indonesia	1	0	0
Mongolia	1	0	0
<b>Latin America</b>			
Argentina	1	0	0
Brazil	1	0	0
Mexico	1	0	0
Venezuela	1	0	0
<b>Social Sciences</b>			
<b>Worldwide</b>	4	1,502,250	€ ,009,000
<b>Africa</b>			
Region-wide Funding	3	25,746	77,237
Kenya	2	32,988	65,975
Senegal	1	400,000	400,000
South Africa	1	66,608	66,608
Tunisia	2	130,000	260,000
<b>Asia/Near East</b>			
Region-wide Funding	1	100,000	100,000
China	9	42,925	386,325
Egypt	1	13,333	13,333
India	10	71,001	710,013
Indonesia	1	37,114	37,114
Israel	2	72,256	144,511
Thailand	1	49,977	49,977
<b>Latin America</b>			
Region-wide Funding	3	200,000	600,000
Bolivia	2	75,000	150,000
Colombia	1	5,317	5,317
Costa Rica	1	9,942	9,942
El Salvador	1	9,942	9,942
Guatemala	1	122,000	122,000
Haiti	1	75,000	75,000
Jamaica	1	7,500	7,500
Mexico	4	35,413	141,651
Nicaragua	1	9,942	9,942
<b>Space Sciences</b>			
<b>Worldwide</b>	1	0	0

Table 9: S&T Funding by Sector, Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Space Sciences (cont.)</b>			
<b>Asia/Near East</b>			
China	3	13,711	41,134
India	7	27,299	191,091
<b>Latin America</b>			
Argentina	2	138,337	276,673
Brazil	2	1,532	3,063
Chile	11	41,746	459,211
Venezuela	1	8,649	8,649
<b>Techno/Industry</b>			
<b>Worldwide</b>	1	600,000	600,000
<b>Asia/Near East</b>			
China	5	1,000	5,000
Egypt	1	2,700,000	2,700,000
India	2	802,500	1,605,000
Jordan	2	400,000	800,000
Pakistan	1	0	0
Philippines	1	200,000	200,000
Saudi Arabia	1	250,000	250,000
Thailand	2	600,000	1,200,000
<b>Latin America</b>			
Brazil	2	75,000	150,000
Costa Rica	1	140,000	140,000
Mexico	2	0	0
Venezuela	1	0	0
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 10: S&T Funding by Sector, Agency, Region and Country

				Annual Funding (\$) per Country		
				-N-	Average	Total
<b>Sector</b>						
Federal Agency						
Region						
Country						
<b>Agriculture</b>						
DOI						
<b>Africa</b>						
Region-wide Funding						
	1		300,000		300,000	
<b>Asia/Near East</b>						
India						
	1		5,000		5,000	
Israel						
	1		5,000		5,000	
USAID						
<b>Worldwide</b>						
	30		965,278		28,958,333	
<b>Africa</b>						
Region-wide Funding						
	11		1,306,259		14,368,850	
Burkina Faso						
	1		75,000		75,000	
Cameroon						
	5		53,000		265,000	
Cape Verde						
	1		200,000		200,000	
Chad						
	1		100,000		100,000	
Gambia, The						
	1		100,000		100,000	
Kenya						
	2		283,334		566,667	
Malawi						
	1		100,000		100,000	
Mali						
	5		187,950		939,750	
Morocco						
	3		1,222,222		3,666,667	
Mozambique						
	2		290,000		580,000	
Niger						
	2		391,875		783,750	
Rwanda						
	3		125,000		375,000	
Sierra Leone						
	1		75,000		75,000	
Tanzania						
	1		37,000		37,000	
Uganda						
	2		200,000		400,000	
Zambia						
	1		100,000		100,000	
Zimbabwe						
	3		50,667		152,000	
<b>Asia/Near East</b>						
Region-wide Funding						
	2		80,000		160,000	
Afghanistan						
	1		1,200,000		1,200,000	
Egypt						
	3		1,633,333		4,900,000	
India						
	2		556,500		1,113,000	
Indonesia						
	7		321,488		2,250,417	
Jordan						
	1		1,500,000		1,500,000	
Nepal						
	3		366,667		1,100,000	
Oman						
	3		3,166,667		9,500,000	
Pakistan						
	6		1,516,667		9,100,000	
Philippines						
	4		1,765,083		7,060,333	
Thailand						
	3		333,333		1,000,000	
Yemen						
	2		972,000		1,944,000	

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

				Annual Funding (\$) per Country		
				-N-	Average	Total
Agriculture (cont.)						
USAID (cont.)						
<b>Latin America</b>						
Region-wide Funding	2	950,000	1,900,000			
Barbados	2	75,000	150,000			
Belize	2	75,000	150,000			
Bolivia	4	161,917	647,667			
Brazil	1	466,667	466,667			
Costa Rica	1	233,333	233,333			
Dominican Republic	3	236,333	709,000			
Ecuador	1	900,000	900,000			
Guatemala	2	74,000	148,000			
Haiti	2	1,350,000	2,700,000			
Honduras	1	225,000	225,000			
Jamaica	2	350,000	700,000			
Peru	3	458,472	1,375,417			
<b>USDA</b>						
<b>Worldwide</b>	2	891,834	1,783,667			
<b>Africa</b>						
Ghana	1	2,000	2,000			
Libya	1	9,425,000	9,425,000			
Zimbabwe	1	30,000	30,000			
<b>Asia/Near East</b>						
Region-wide Funding	1	176,000	176,000			
China	4	41,250	165,000			
Egypt	1	30,000	30,000			
India	49	3,163	155,000			
Mongolia	2	17,500	35,000			
Papua New Guinea	1	18,000	18,000			
<b>Latin America</b>						
Argentina	1	5,000	5,000			
Belize	1	9,425,000	9,425,000			
Brazil	12	7,417	89,000			
Colombia	1	1,150,000	1,150,000			
Costa Rica	1	100,000	100,000			
Guatemala	3	3,738,056	11,214,167			
Mexico	4	2,962,417	11,849,667			
Panama	1	1,150,000	1,150,000			
Peru	1	5,000	5,000			
Chemistry						
NSF						
<b>Africa</b>						
Morocco	1	9,548	9,548			

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
Chemistry (cont.)			
NSF (cont.)			
Africa (cont.)			
Swaziland	1	6,670	6,670
Asia/Near East			
China	4	11,241	44,964
Egypt	2	10,000	19,999
India	3	9,123	27,368
Malaysia	1	9,750	9,750
Latin America			
Argentina	3	8,160	24,481
Brazil	6	7,296	43,777
Chile	3	6,990	20,969
Costa Rica	1	8,770	8,770
Mexico	4	6,661	26,643
Uruguay	1	8,025	8,025
Earth SCI/Atmosp			
DOC			
Worldwide	2	0	0
Asia/Near East			
India	1	200,000	200,000
NASA			
Latin America			
Brazil	1	3,000,000	3,000,000
NSF			
Asia/Near East			
China	4	71,755	287,019
Malaysia	1	124,319	124,319
Latin America			
Argentina	1	79,355	79,355
Chile	1	57,018	57,018
Ecuador	1	41,035	41,035
Venezuela	1	8,358	8,358
Earth SCI/Oceans			
DOC			
Worldwide	1	0	0
Asia/Near East			
China	1	30,000	30,000
Indonesia	1	5,000	5,000
Israel	1	5,000	5,000

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

				Annual Funding (\$) per Country		
				-N-	Average	Total
Earth SCI/Oceans (cont.)						
NSF						
<b>Asia/Near East</b>						
	China	1	93,500		93,500	
	Indonesia	2	122,919		245,837	
	Israel	1	126,102		126,102	
	Kiribati	1	52,768		52,768	
	Philippines	2	69,777		139,553	
	Thailand	1	12,247		12,247	
<b>Latin America</b>						
	Argentina	3	133,566		400,699	
	Barbados	1	135,092		135,092	
	Brazil	10	115,901		1,159,008	
	Chile	5	159,304		796,521	
	Colombia	2	29,786		59,571	
	Venezuela	1	6,116		6,116	
Earth SCI/Terres						
DOC						
	<b>Worldwide</b>	3	0		0	
DOI						
	<b>Worldwide</b>	1	3,000,000		3,000,000	
<b>Africa</b>						
	Ethiopia	1	2,727		2,727	
	Ghana	1	2,727		2,727	
	Nigeria	1	5,000		5,000	
<b>Asia/Near East</b>						
	China	6	20,000		120,000	
	Egypt	1	5,000		5,000	
	India	4	78,750		315,000	
	Indonesia	1	2,727		2,727	
	Iran	1	2,727		2,727	
	Israel	1	5,000		5,000	
	Jordan	1	80,000		80,000	
	Nepal	1	0		0	
	Pakistan	1	2,727		2,727	
	Philippines	2	16,364		32,727	
	Saudi Arabia	1	0		0	
	United Arab Emirates	1	0		0	
<b>Latin America</b>						
	Bolivia	2	50,000		100,000	
	Brazil	2	3,864		7,727	
	Chile	1	100,000		100,000	
	Costa Rica	1	2,727		2,727	
	Honduras	1	5,000		5,000	

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
Earth SCI/Terres (cont.)			
DOI (cont.)			
<b>Latin America (cont.)</b>			
Jamaica	1	2,727	2,727
Mexico	3	20,909	62,727
Peru	1	100,000	100,000
Venezuela	4	3,182	12,727
NASA			
<b>Worldwide</b>	1	900,000	900,000
<b>Asia/Near East</b>			
India	1	150,000	150,000
<b>Latin America</b>			
Chile	2	165,000	330,000
Mexico	1	300,000	300,000
Peru	1	75,000	75,000
NSF			
<b>Africa</b>			
Region-wide Funding	4	35,927	143,708
Kenya	9	83,994	755,950
Senegal	1	6,985	6,985
South Africa	2	32,558	65,115
Tanzania	2	92,554	185,107
<b>Asia/Near East</b>			
Bangladesh	1	58,906	58,906
China	25	24,412	610,303
Egypt	3	28,052	84,157
India	9	28,098	252,881
Indonesia	3	49,409	148,226
Israel	1	15,800	15,800
Maldives	1	56,451	56,451
Pakistan	6	49,519	297,116
Philippines	6	28,278	169,668
Thailand	1	7,385	7,385
<b>Latin America</b>			
Region-wide Funding	5	35,338	176,688
Argentina	5	13,765	68,827
Bolivia	3	25,109	75,328
Brazil	3	63,267	189,800
Chile	7	56,354	394,476
Colombia	3	15,967	47,900
Costa Rica	6	88,565	531,390
Ecuador	1	45,742	45,742
Guatemala	1	8,973	8,973
Jamaica	2	81,430	162,860

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
Earth SCI/Terres (cont.)			
NSF (cont.)			
<b>Latin America (cont.)</b>			
Mexico	7	34,776	243,429
Panama	1	63,119	63,119
Peru	1	37,546	37,546
Trinidad and Tobago	1	8,725	8,725
Venezuela	2	73,010	146,020
Education			
USAID			
<b>Worldwide</b>	3	566,667	1,700,000
<b>Africa</b>			
Region-wide Funding	1	750,000	750,000
Botswana	2	387,500	775,000
Burundi	1	212,500	212,500
Cameroon	1	100,000	100,000
Ghana	1	375,000	375,000
Guinea	1	400,000	400,000
Malawi	1	375,000	375,000
Mali	2	237,500	475,000
South Africa	1	375,000	375,000
Tunisia	1	3,800,000	3,800,000
Zimbabwe	1	325,000	325,000
<b>Asia/Near East</b>			
Egypt	2	2,606,250	5,212,500
Indonesia	2	306,250	612,500
Jordan	2	293,750	587,500
Nepal	2	362,500	725,000
Pakistan	3	1,104,167	3,312,500
Papua New Guinea	1	325,000	325,000
Philippines	1	100,000	100,000
Sri Lanka	2	293,750	587,500
Thailand	1	212,500	212,500
Yemen	1	200,000	200,000
<b>Latin America</b>			
Region-wide Funding	2	390,000	780,000
Belize	1	550,000	550,000
Bolivia	1	325,000	325,000
Costa Rica	2	212,500	425,000
Dominican Republic	1	325,000	325,000
El Salvador	1	325,000	325,000
Grenada	1	550,000	550,000

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
Education (cont.)			
USAID (cont.)			
Latin America (cont.)			
Guatemala	3	425,000	1,275,000
Haiti	2	600,000	1,200,000
Honduras	3	204,167	612,500
Jamaica	1	75,000	75,000
Peru	1	0	0
Energy			
DOE			
Asia/Near East			
China	3	0	0
Saudi Arabia	1	0	0
Latin America			
Brazil	1	0	0
Chile	1	0	0
Costa Rica	1	0	0
Mexico	1	0	0
Venezuela	2	0	0
NRC			
Asia/Near East			
China	1	0	0
Egypt	1	0	0
Israel	1	0	0
Philippines	1	0	0
Latin America			
Argentina	1	0	0
Brazil	1	0	0
Mexico	2	0	0
Peru	1	0	0
USAID			
Worldwide	5	546,000	2,730,000
Africa			
Morocco	1	700,000	700,000
Uganda	1	15,000	15,000
Zaire	1	15,000	15,000
Asia/Near East			
Region-wide Funding	1	100,000	100,000
Egypt	3	2,500,333	7,501,000
India	7	124,524	871,667
Indonesia	4	82,917	331,667
Pakistan	3	9,666,667	29,000,000
Philippines	2	375,000	750,000

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Energy (cont.)</b>			
USAID (cont.)			
<b>Asia/Near East (cont.)</b>			
Thailand	1	50,000	50,000
<b>Latin America</b>			
Brazil	2	133,334	266,667
Costa Rica	2	40,000	80,000
Honduras	1	15,000	15,000
Jamaica	1	50,000	50,000
<b>Engineering</b>			
NSF			
<b>Asia/Near East</b>			
Region-wide Funding	1	8,681	8,681
China	28	38,224	1,070,269
Egypt	2	12,400	24,800
India	27	35,322	953,705
Indonesia	2	10,426	20,851
Israel	1	19,358	19,358
Jordan	1	13,350	13,350
Pakistan	1	68,628	68,628
Singapore	2	14,064	28,127
Thailand	2	34,498	68,996
<b>Latin America</b>			
Argentina	10	17,395	173,954
Brazil	8	12,594	100,752
Chile	1	20,250	20,250
Jamaica	1	172,403	172,403
Mexico	4	16,156	64,625
Peru	1	8,656	8,656
Uruguay	1	8,435	8,435
Venezuela	2	54,106	108,211
<b>Environment</b>			
DOI			
<b>Asia/Near East</b>			
China	2	52,500	105,000
Egypt	1	5,000	5,000
India	2	62,500	125,000
Israel	1	5,000	5,000
Pakistan	1	5,000	5,000
Sri Lanka	1	200,000	200,000
<b>Latin America</b>			
Region-wide Funding	1	5,000	5,000

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
Environment (cont.)			
DOI (cont.)			
Latin America (cont.)			
Argentina	1	100,000	100,000
Brazil	1	100,000	100,000
Costa Rica	3	80,000	240,000
Mexico	21	40,000	840,000
Venezuela	2	42,500	85,000
EPA			
Africa			
Botswana	1	12,500	12,500
Lesotho	1	12,500	12,500
Malawi	1	12,500	12,500
Tanzania	1	12,500	12,500
Zambia	1	12,500	12,500
Zimbabwe	1	12,500	12,500
Asia/Near East			
China	7	203,143	1,422,000
India	3	3,333	10,000
Latin America			
Ecuador	1	50,000	50,000
Mexico	2	2,500	5,000
NSF			
Africa			
Sudan	1	3,200	3,200
Asia/Near East			
India	2	47,910	95,820
Pakistan	1	24,917	24,917
Philippines	1	22,202	22,202
Latin America			
Mexico	1	233,251	233,251
USAID			
Worldwide	5	2,070,000	10,350,000
Africa			
Region-wide Funding	2	2,035,715	4,071,429
Cameroon	1	71,429	71,429
Kenya	1	30,000	30,000
Madagascar	1	71,429	71,429
Mali	1	150,000	150,000
Tunisia	1	30,000	30,000
Zaire	1	71,429	71,429
Asia/Near East			
Bangladesh	1	71,429	71,429
Indonesia	1	71,429	71,429

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
Environment (cont.)			
USAID (cont.)			
<b>Asia/Near East (cont.)</b>			
Jordan	1	100,000	100,000
Nepal	1	71,429	71,429
Sri Lanka	1	350,000	350,000
Thailand	3	193,333	580,000
<b>Latin America</b>			
Region-wide Funding	1	30,000	30,000
Bolivia	1	23,000	23,000
Brazil	1	100,000	100,000
Ecuador	4	779,500	3,118,000
Guatemala	1	15,000	15,000
Health			
DHHS			
<b>Worldwide</b>	10	7,010,000	70,100,000
<b>Africa</b>			
Region-wide Funding	1	128,571	128,571
Botswana	1	300,000	300,000
Burundi	1	700,000	700,000
Cameroon	1	128,571	128,571
Central African Rep.	1	700,000	700,000
Gambia, The	1	300,000	300,000
Guinea	1	700,000	700,000
Ivory Coast	1	700,000	700,000
Kenya	1	128,571	128,571
Lesotho	1	700,000	700,000
Liberia	2	414,286	828,571
Malawi	1	500,000	500,000
Mali	1	1,437,500	1,437,500
Nigeria	2	550,000	1,100,000
Rwanda	1	454,545	454,545
Senegal	1	500,000	500,000
Sudan	1	625,000	625,000
Swaziland	1	700,000	700,000
Tanzania	1	45,455	45,455
Togo	1	700,000	700,000
Uganda	1	500,000	500,000
Zaire	5	678,409	3,392,045
<b>Asia/Near East</b>			
China	11	1,174,764	12,922,402
Egypt	9	1,300,487	11,704,383
India	19	890,633	16,922,025

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
Health (cont.)			
DHHS (cont.)			
<b>Asia/Near East (cont.)</b>			
Indonesia	3	294,372	883,116
Israel	1	625,000	625,000
Jordan	1	45,455	45,455
Malaysia	3	266,667	800,000
Nepal	1	375,000	375,000
Pakistan	5	496,742	2,483,712
Philippines	4	250,000	1,000,000
Seychelles	1	45,455	45,455
Sri Lanka	1	400,000	400,000
Thailand	7	544,643	3,812,500
Turkey	1	50,000	50,000
Western Samoa	1	300,000	300,000
<b>Latin America</b>			
Region-wide Funding	3	71,429	214,287
Barbados	1	375,000	375,000
Brazil	5	787,500	3,937,500
Chile	1	45,455	45,455
Colombia	2	221,429	442,858
Guatemala	1	454,545	454,545
Mexico	12	1,067,839	12,814,070
Peru	3	206,818	620,455
Venezuela	5	681,591	3,407,955
DOS			
<b>Asia/Near East</b>			
India	1	0	0
NASA			
<b>Latin America</b>			
Mexico	1	750,000	750,000
USAID			
<b>Worldwide</b>	29	2,216,379	64,275,000
<b>Africa</b>			
Region-wide Funding	2	105,000	210,000
Botswana	1	75,000	75,000
Kenya	4	2,121,131	8,484,524
Morocco	1	200,000	200,000
Nigeria	2	108,929	217,857
Sierra Leone	1	75,000	75,000
<b>Asia/Near East</b>			
Region-wide Funding	2	487,500	975,000
Afghanistan	1	1,000,000	1,000,000
Bangladesh	2	662,500	1,325,000

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

				Annual Funding (\$) per Country		
				-N-	Average	Total
Health (cont.)						
USAID (cont.)						
<b>Asia/Near East (cont.)</b>						
Egypt	2	587,500	1,175,000			
India	2	650,000	1,300,000			
Indonesia	3	536,503	1,609,524			
Jordan	1	200,000	200,000			
Pakistan	6	1,473,810	8,842,857			
Papua New Guinea	1	200,000	200,000			
Philippines	1	500,000	500,000			
Thailand	3	536,508	1,609,524			
Yemen	1	300,000	300,000			
<b>Latin America</b>						
Region-wide Funding	3	125,000	375,000			
Belize	2	75,000	150,000			
Brazil	1	75,000	75,000			
Dominican Republic	3	150,000	450,000			
Haiti	1	75,000	75,000			
Mexico	2	158,929	317,857			
Peru	2	108,929	217,857			
Mathematics						
NSF						
<b>Africa</b>						
Ghana	1	6,830	6,830			
<b>Asia/Near East</b>						
China	3	14,140	42,420			
<b>Latin America</b>						
Region-wide Funding	1	53,022	53,022			
Argentina	3	3,945	11,834			
Brazil	6	6,949	41,693			
Chile	2	4,381	8,761			
Colombia	2	4,217	8,433			
Mexico	3	4,014	12,043			
Other Life SCI						
DOI						
<b>Africa</b>						
Burkina Faso	1	71,429	71,429			
Chad	1	71,429	71,429			
Ethiopia	1	71,429	71,429			
Mali	1	71,429	71,429			
Mauritania	1	71,429	71,429			
Senegal	1	71,429	71,429			
Sudan	1	71,429	71,429			

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
Other Life SCI (cont.)			
NSF			
<b>Africa</b>			
Kenya	1	118,528	118,528
Nigeria	1	9,298	9,298
Zimbabwe	1	53,832	53,832
<b>Asia/Near East</b>			
China	14	32,879	460,304
Egypt	2	10,089	20,178
India	7	55,708	389,954
Israel	1	9,990	9,990
Jordan	1	9,990	9,990
Malaysia	3	26,611	79,834
Pakistan	6	13,038	78,227
Philippines	1	393,374	393,374
Sri Lanka	1	9,304	9,304
<b>Latin America</b>			
Region-wide Funding	2	36,958	73,915
Argentina	7	14,808	103,656
Bahamas, The	1	2,658	2,658
Bolivia	3	38,572	115,716
Brazil	7	7,459	52,210
Chile	7	7,762	54,333
Colombia	1	63,894	63,894
Costa Rica	4	185,933	743,730
Ecuador	1	10,000	10,000
Guatemala	1	54,998	54,998
Guyana	1	2,000	2,000
Jamaica	1	2,658	2,658
Mexico	10	21,067	210,671
Paraguay	1	50,887	50,887
Venezuela	7	13,631	95,418
Physics			
NSF			
<b>Asia/Near East</b>			
Region-wide Funding	1	205,000	205,000
China	12	14,239	170,870
India	13	27,805	361,470
Malaysia	1	10,165	10,165
Nepal	1	10,000	10,000
Pakistan	1	6,390	6,390
<b>Latin America</b>			
Region-wide Funding	1	15,625	15,625

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Physics (cont.)</b>			
<b>NSF (cont.)</b>			
<b>Latin America (cont.)</b>			
Argentina	4	7,961	31,843
Brazil	7	7,050	49,351
Costa Rica	2	6,263	12,525
Mexico	9	55,381	498,431
<b>Population</b>			
<b>USAID</b>			
<b>Worldwide</b>	3	10,466,667	31,400,000
<b>Africa</b>			
Region-wide Funding	1	100,000	100,000
Cameroon	1	533,333	533,333
Nigeria	1	533,333	533,333
Rwanda	1	533,333	533,333
Tanzania	1	533,333	533,333
<b>Asia/Near East</b>			
Region-wide Funding	1	100,000	100,000
Egypt	1	3,200,000	3,200,000
India	2	250,000	500,000
Indonesia	1	533,333	533,333
Jordan	1	533,333	533,333
Pakistan	1	533,333	533,333
Yemen	1	533,333	533,333
<b>Latin America</b>			
Dominican Republic	1	5,000	5,000
Haiti	1	100,000	100,000
Paraguay	1	533,333	533,333
<b>SCI Policy/Umbr</b>			
<b>DOS</b>			
<b>Asia/Near East</b>			
China	1	0	0
Egypt	1	0	0
India	3	0	0
Indonesia	1	0	0
Mongolia	1	0	0
<b>Latin America</b>			
Argentina	1	0	0
Brazil	1	0	0
Mexico	1	0	0
Venezuela	1	0	0

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Social Sciences</b>			
DOC			
Worldwide	2	2,204,500	4,409,000
Asia/Near East			
Region-wide Funding	1	100,000	100,000
Latin America			
Region-wide Funding	3	200,000	600,000
Mexico	1	100,000	100,000
HUD			
Asia/Near East			
China	1	30,000	30,000
NSF			
Africa			
Region-wide Funding	3	25,746	77,237
Kenya	1	5,975	5,975
South Africa	1	66,608	66,608
Asia/Near East			
China	8	44,541	356,325
Egypt	1	13,333	13,333
India	9	56,668	510,013
Indonesia	1	37,114	37,114
Israel	2	72,256	144,511
Thailand	1	49,977	49,977
Latin America			
Colombia	1	5,317	5,317
Costa Rica	1	9,942	9,942
El Salvador	1	9,942	9,942
Jamaica	1	7,500	7,500
Mexico	3	13,884	41,651
Nicaragua	1	9,942	9,942
USAID			
Worldwide	2	800,000	1,600,000
Africa			
Kenya	1	60,000	60,000
Senegal	1	400,000	400,000
Tunisia	2	130,000	260,000
Asia/Near East			
India	1	200,000	200,000
Latin America			
Bolivia	2	75,000	150,000
Guatemala	1	122,000	122,000
Haiti	1	75,000	75,000

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Space Sciences</b>			
DOC			
Worldwide	1	0	0
Asia/Near East			
India	1	100,000	100,000
NASA			
Latin America			
Argentina	1	275,000	275,000
NSF			
Asia/Near East			
China	3	13,711	41,134
India	6	15,182	91,091
Latin America			
Argentina	1	1,673	1,673
Brazil	2	1,532	3,063
Chile	11	41,746	459,211
Venezuela	1	8,649	8,649
<b>Techno/Industry</b>			
DOC			
Worldwide	1	600,000	600,000
Asia/Near East			
China	1	5,000	5,000
India	1	5,000	5,000
Pakistan	1	0	0
Saudi Arabia	1	250,000	250,000
Thailand	1	0	0
Latin America			
Brazil	1	150,000	150,000
Mexico	1	0	0
Venezuela	1	0	0
DOT			
Asia/Near East			
China	4	0	0
Latin America			
Brazil	1	0	0
Mexico	1	0	0
USAID			
Asia/Near East			
Egypt	1	2,700,000	2,700,000
India	1	1,600,000	1,600,000
Jordan	2	400,000	800,000
Philippines	1	200,000	200,000
Thailand	1	1,200,000	1,200,000

Table 10: S&T Funding by Sector, Agency, Region and Country  
(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
Techno/Industry (cont.)			
USAID (cont.)			
<b>Latin America</b>			
Costa Rica	1	140,000	140,000
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 11: S&T Funding by Sector, Region and Agency

	Annual Funding (\$) per Agency		
	-N-	Average	Total
Sector			
Region			
Federal Agency			
<b>Agriculture</b>			
<b>Worldwide</b>			
USAID	30	965,278	28,958,333
USDA	2	891,834	1,783,667
<b>Africa</b>			
DOI	1	300,000	300,000
USAID	46	497,493	22,884,684
USDA	3	3,152,333	9,457,000
<b>Asia/Near East</b>			
DCI	2	5,000	10,000
USAID	37	1,103,453	40,827,750
USDA	58	9,983	579,000
<b>Latin America</b>			
USAID	26	396,349	10,305,084
USDA	25	1,399,513	34,987,834
<b>Chemistry</b>			
<b>Africa</b>			
NSF	2	8,109	16,218
<b>Asia/Near East</b>			
NSF	10	10,208	102,081
<b>Latin America</b>			
NSF	18	7,370	132,665
<b>Earth SCI/Atmosp</b>			
<b>Worldwide</b>			
DOC	2	0	0
<b>Asia/Near East</b>			
DOC	1	200,000	200,000
NSF	5	82,268	411,338
<b>Latin America</b>			
NASA	1	3,000,000	3,000,000
NSF	4	46,442	185,766
<b>Earth SCI/Oceans</b>			
<b>Worldwide</b>			
DOC	1	0	0
<b>Asia/Near East</b>			
DOC	3	13,333	40,000
NSF	8	83,751	670,007
<b>Latin America</b>			
NSF	22	116,228	2,557,007

Table 11: S&T Funding by Sector, Region and Agency (Continued)

	Annual Funding (\$) per Agency		
	-N-	Average	Total
<b>Earth SCI/Terres</b>			
<b>Worldwide</b>			
DOC	3	0	0
DOI	1	3,000,000	3,000,000
NASA	1	900,000	900,000
<b>Africa</b>			
DOI	3	3,485	10,454
NSF	18	64,270	1,156,865
<b>Asia/Near East</b>			
DOI	21	26,948	565,908
NASA	1	150,000	150,000
NSF	56	30,373	1,700,893
<b>Latin America</b>			
DOI	16	24,602	393,635
NASA	4	176,250	705,000
NSF	48	45,850	2,200,823
<b>Education</b>			
<b>Worldwide</b>			
USAID	3	566,667	1,700,000
<b>Africa</b>			
USAID	13	612,500	7,962,500
<b>Asia/Near East</b>			
USAID	17	698,529	11,875,000
<b>Latin America</b>			
USAID	19	339,079	6,442,500
<b>Energy</b>			
<b>Worldwide</b>			
USAID	5	546,000	2,730,000
<b>Africa</b>			
USAID	3	243,333	730,000
<b>Asia/Near East</b>			
DOE	4	0	0
NRC	4	0	0
USAID	21	1,838,302	38,604,334
<b>Latin America</b>			
DOE	6	0	0
NRC	5	0	0
USAID	6	68,611	411,667
<b>Engineering</b>			
<b>Asia/Near East</b>			
NSF	67	33,982	2,276,765

Table 11: S&T Funding by Sector, Region and Agency (Continued)

	Annual Funding (\$) per Agency		
	-N-	Average	Total
<b>Engineering (cont.)</b>			
<b>Latin America</b>			
NSF	28	23,475	657,286
<b>Environment</b>			
<b>Worldwide</b>			
USAID	5	2,070,000	10,350,000
<b>Africa</b>			
EPA	6	12,500	75,000
NSF	1	3,200	3,200
USAID	8	561,965	4,495,716
<b>Asia/Near East</b>			
DOI	8	55,625	445,000
EPA	10	143,200	1,432,000
NSF	4	35,735	142,939
USAID	8	155,536	1,244,287
<b>Latin America</b>			
DOI	29	47,241	1,370,000
EPA	3	18,333	55,000
NSF	1	233,251	233,251
USAID	8	410,750	3,286,000
<b>Health</b>			
<b>Worldwide</b>			
DHHS	10	7,010,000	70,100,000
USAID	29	2,216,379	64,275,000
<b>Africa</b>			
DHHS	28	545,315	15,268,829
USAID	11	842,035	9,262,381
<b>Asia/Near East</b>			
DHHS	68	770,133	52,369,048
DOS	1	0	0
USAID	25	761,476	19,036,905
<b>Latin America</b>			
DHHS	33	676,125	22,312,125
NASA	1	750,000	750,000
USAID	14	118,622	1,660,714
<b>Mathematics</b>			
<b>Africa</b>			
NSF	1	6,830	6,830
<b>Asia/Near East</b>			
NSF	3	14,140	42,420
<b>Latin America</b>			
NSF	17	7,987	135,786

Table 11: S&T Funding by Sector, Region and Agency (Continued)

	Annual Funding (\$) per Agency		
	-N-	Average	Total
<b>Other Life SCI</b>			
<b>Africa</b>			
DOI	7	71,429	500,003
NSF	3	60,553	181,658
<b>Asia/Near East</b>			
NSF	36	40,310	1,451,155
<b>Latin America</b>			
NSF	54	30,310	1,636,744
<b>Physics</b>			
<b>Asia/Near East</b>			
NSF	29	26,341	763,895
<b>Latin America</b>			
NSF	23	26,425	607,775
<b>Population</b>			
<b>Worldwide</b>			
USAID	3	10,466,667	31,400,000
<b>Africa</b>			
USAID	5	446,666	2,233,332
<b>Asia/Near East</b>			
USAID	8	741,667	5,933,332
<b>Latin America</b>			
USAID	3	212,778	638,333
<b>SCI Policy/Umbr</b>			
<b>Asia/Near East</b>			
DOS	7	0	0
<b>Latin America</b>			
DOS	4	0	0
<b>Social Sciences</b>			
<b>Worldwide</b>			
DOC	2	2,204,500	4,409,000
USAID	2	800,000	1,600,000
<b>Africa</b>			
NSF	5	29,964	149,820
USAID	4	180,000	720,000
<b>Asia/Near East</b>			
DOC	1	100,000	100,000
HUD	1	30,000	30,000
NSF	22	50,512	1,111,273
USAID	1	200,000	200,000
<b>Latin America</b>			
DOC	4	175,000	700,000

Table 11: S&T Funding by Sector, Region and Agency (Continued)

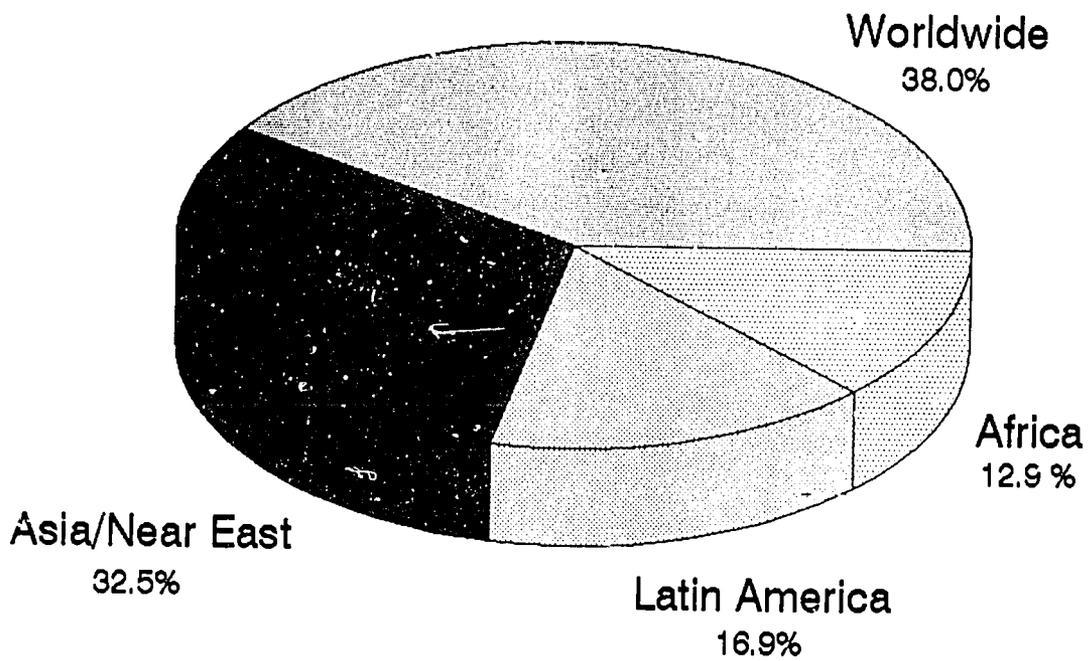
	Annual Funding (\$) per Agency		
	-N-	Average	Total
<b>Social Sciences (cont.)</b>			
<b>Latin America (cont.)</b>			
NSF	8	10,537	84,294
USAID	4	86,750	347,000
<b>Space Sciences</b>			
<b>Worldwide</b>			
DOC	1	0	0
<b>Asia/Near East</b>			
DOC	1	100,000	100,000
NSF	9	14,692	132,225
<b>Latin America</b>			
NASA	1	275,000	275,000
NSF	15	31,506	472,596
<b>Techno/Industry</b>			
<b>Worldwide</b>			
DOC	1	600,000	600,000
<b>Asia/Near East</b>			
DOC	5	52,000	260,000
DOT	4	0	0
USAID	6	1,083,333	6,500,000
<b>Latin America</b>			
DOC	3	50,000	150,000
DOT	2	0	0
USAID	1	140,000	140,000
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

# **CHAPTER V**

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## **GEOGRAPHIC PERSPECTIVE**

## S & T Funding by Region



Total Funding: \$583,361,930

# Agency Funding within Regions

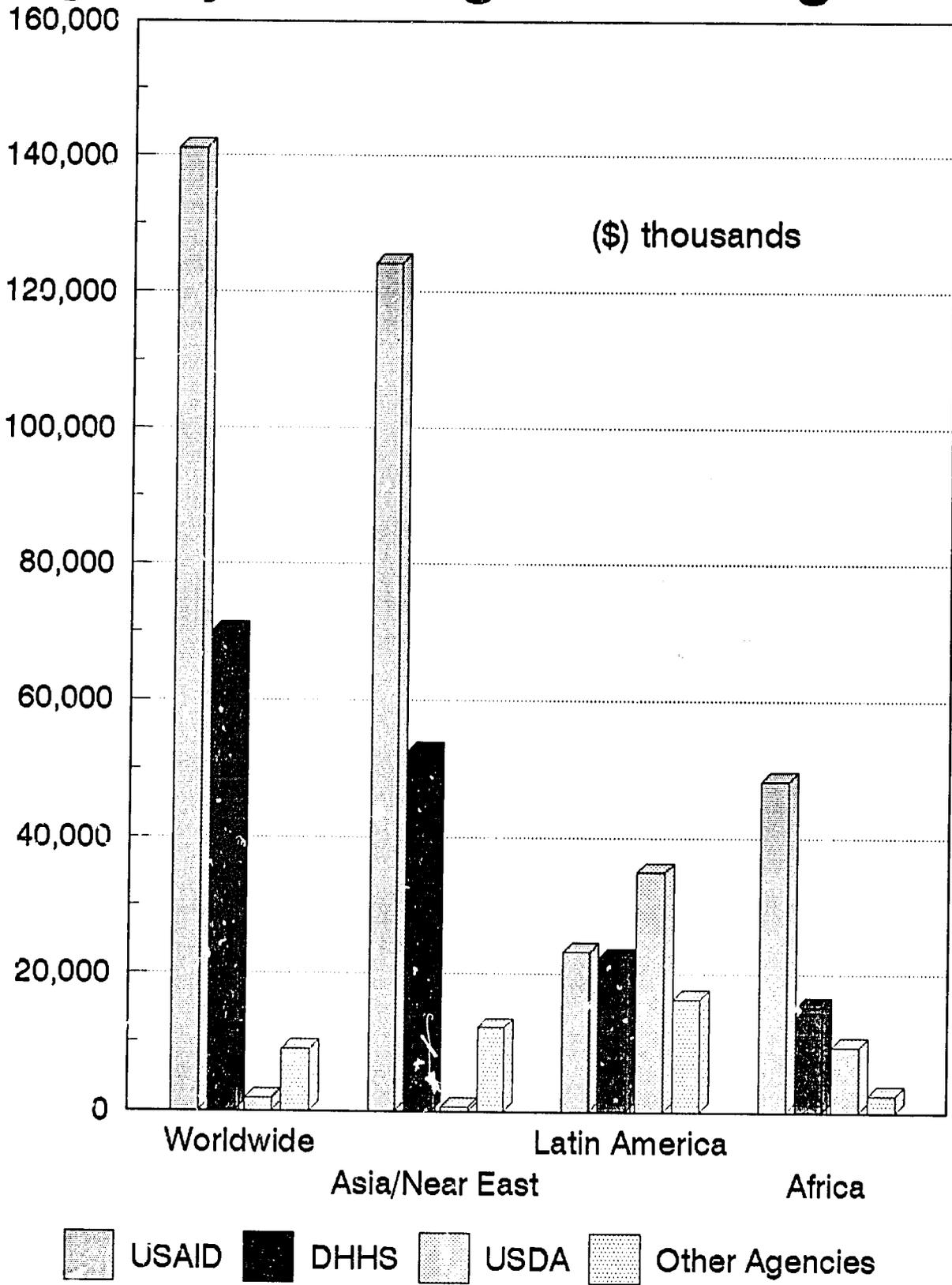


Table 12: S&T Funding by Region

Region	Annual Funding (\$) per Region		
	-N-	Average	Total
Worldwide	101	2,196,099	221,806,000
Africa	168	448,896	75,414,490
Asia/Near East	572	330,957	189,307,555
Latin America	456	212,355	96,833,885
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 13: S&T Funding by Region and Agency

Region Federal Agency	Annual Funding (\$) per Agency		
	-N-	Average	Total
<b>Worldwide</b>			
DHHS	10	7,010,000	70,100,000
DOC	10	500,900	5,009,000
DOI	1	3,000,000	3,000,000
NASA	1	900,000	900,000
USAID	77	1,831,342	141,013,333
USDA	2	891,834	1,783,667
<b>Africa</b>			
DHHS	28	545,315	15,268,829
DOI	11	73,678	810,457
EPA	6	12,500	75,000
NSF	30	50,486	1,514,591
USAID	90	536,540	48,288,613
USDA	3	3,152,333	9,457,000
<b>Asia/Near East</b>			
DHHS	68	770,133	52,369,048
DCC	11	63,636	700,000
DOE	4	0	0
DOI	31	32,933	1,020,908
DOS	8	0	0
DOT	4	0	0
EPA	10	143,200	1,432,000
HUD	1	30,000	30,000
NASA	1	150,000	150,000
NRC	4	0	0
NSF	249	35,361	8,804,991
USAID	123	1,009,932	124,221,608
USDA	58	9,983	579,000
<b>Latin America</b>			
DHHS	33	676,125	22,312,125
DOC	7	121,429	850,000
DOE	6	0	0
DOI	45	39,192	1,763,635
DOS	4	0	0
DOT	2	0	0
EPA	3	18,333	55,000
NASA	7	675,714	4,730,000
NRC	5	0	0
NSF	238	37,412	8,903,993
USAID	81	286,806	23,231,298
USDA	25	1,399,513	34,987,834
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 14: S&T Funding by Region and Sector

Region Sector	Annual Funding (\$) per Sector		
	-N-	Average	Total
<b>Worldwide</b>			
Agriculture	32	960,688	30,742,000
Earth SCI/Atmosp	2	0	0
Earth SCI/Oceans	1	0	0
Earth SCI/Terres	5	780,000	3,900,000
Education	3	566,667	1,700,000
Energy	5	546,000	2,730,000
Environment	5	2,070,000	10,350,000
Health	39	3,445,513	134,375,000
Population	3	10,466,667	31,400,000
Social Sciences	4	1,502,250	6,009,000
Space Sciences	1	0	0
Techno/Industry	1	600,000	600,000
<b>Africa</b>			
Agriculture	50	652,834	32,641,684
Chemistry	2	8,109	16,218
Earth SCI/Terres	21	55,587	1,167,319
Education	13	612,500	7,962,500
Energy	3	243,333	730,000
Environment	15	304,928	4,573,916
Health	39	629,005	24,531,210
Mathematics	1	6,830	6,830
Other Life SCI	10	68,166	681,661
Population	5	446,666	2,233,332
Social Sciences	9	96,647	869,820
<b>Asia/Near East</b>			
Agriculture	97	426,977	41,416,750
Chemistry	10	10,208	102,081
Earth SCI/Atmosp	6	101,890	611,338
Earth SCI/Oceans	11	64,546	710,007
Earth SCI/Terres	78	30,985	2,416,801
Education	17	698,529	11,875,000
Energy	29	1,331,184	38,604,334
Engineering	67	33,982	2,276,765
Environment	30	108,808	3,264,226
Health	94	759,638	71,405,953
Mathematics	3	14,140	42,420
Other Life SCI	36	40,310	1,451,155
Physics	29	26,341	763,895
Population	8	741,667	5,933,332
SCI Policy/Umbr	7	0	0
Social Sciences	25	57,651	1,441,273
Space Sciences	10	23,223	232,225
Techno/Industry	15	450,667	6,760,000

Table 14: S&amp;T Funding by Region and Sector

(Continued)

	Annual Funding (\$) per Sector		
	-N-	Average	Total
<b>Latin America</b>			
Agriculture	51	888,096	45,292,918
Chemistry	18	7,370	132,665
Earth SCI/Atmosp	5	637,153	3,185,766
Earth SCI/Oceans	22	116,228	2,557,007
Earth SCI/Terres	68	48,521	3,299,458
Education	19	339,079	6,442,500
Energy	17	24,216	411,667
Engineering	28	23,475	657,286
Environment	41	120,591	4,944,251
Health	48	515,059	24,722,839
Mathematics	17	7,987	135,786
Other Life SCI	54	30,310	1,636,744
Physics	23	26,425	607,775
Population	3	212,778	638,333
SCI Policy/Umbr	4	0	0
Social Sciences	16	70,706	1,131,294
Space Sciences	16	46,725	747,596
Techno/Industry	6	48,333	290,000
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 15: S&T Funding by Region and Country

Region Country	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Worldwide</b>	101	2,196,099	221,806,000
<b>Africa</b>			
Region-wide Funding	26	774,992	20,149,795
Botswana	5	232,500	1,162,500
Burkina Faso	2	73,215	146,429
Burundi	2	456,250	912,500
Cameroon	9	122,037	1,098,333
Cape Verde	1	200,000	200,000
Central African Rep.	1	700,000	700,000
Chad	2	85,715	171,429
Ethiopia	2	37,078	74,156
Gambia, The	2	200,000	400,000
Ghana	4	96,639	386,557
Guinea	2	550,000	1,100,000
Ivory Coast	1	700,000	700,000
Kenya	20	507,511	10,150,215
Lesotho	2	356,250	712,500
Liberia	2	414,286	828,571
Libya	1	9,425,000	9,425,000
Madagascar	1	71,429	71,429
Malawi	4	246,875	987,500
Mali	10	307,368	3,073,679
Mauritania	1	71,429	71,429
Morocco	6	762,703	4,576,215
Mozambique	2	290,000	580,000
Niger	2	391,875	783,750
Nigeria	7	266,498	1,865,488
Rwanda	5	272,576	1,362,878
Senegal	4	244,604	978,414
Sierra Leone	2	75,000	150,000
South Africa	4	126,681	506,723
Sudan	3	233,210	699,629
Swaziland	2	352,335	706,670
Tanzania	6	135,566	813,395
Togo	1	700,000	700,000
Tunisia	4	1,022,500	4,090,000
Uganda	4	228,750	915,000
Zaire	7	496,925	3,478,474
Zambia	2	56,250	112,500
Zimbabwe	7	81,905	573,332

Table 15: S&amp;T Funding by Region and Country

(Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Asia/Near East</b>			
Region-wide Funding	10	182,468	1,824,681
Afghanistan	2	1,100,000	2,200,000
Bangladesh	4	363,834	1,455,335
China	144	124,837	17,976,510
Egypt	36	1,016,538	36,595,350
India	177	148,328	26,253,994
Indonesia	32	210,992	6,751,741
Iran	1	2,727	2,727
Israel	12	80,063	960,761
Jordan	12	322,469	3,869,628
Kiribati	1	52,768	52,768
Malaysia	9	113,785	1,024,068
Maldives	1	56,451	56,451
Mongolia	3	11,667	35,000
Nepal	9	253,492	2,281,429
Oman	3	3,166,667	9,500,000
Pakistan	42	1,279,891	53,755,407
Papua New Guinea	3	181,000	543,000
Philippines	26	398,764	10,367,857
Saudi Arabia	3	83,333	250,000
Seychelles	1	45,455	45,455
Singapore	2	14,064	28,127
Sri Lanka	6	257,801	1,546,804
Thailand	25	344,125	8,603,129
Turkey	1	50,000	50,000
United Arab Emirates	1	0	0
Western Samoa	1	300,000	300,000
Yemen	5	595,467	2,977,333
<b>Latin America</b>			
Region-wide Funding	24	175,931	4,223,537
Argentina	42	30,389	1,276,322
Bahamas, The	1	2,658	2,658
Barbados	4	165,023	660,092
Belize	6	1,712,500	10,275,000
Bolivia	16	89,794	1,436,711
Brazil	80	122,903	9,832,215
Chile	42	54,452	2,286,994
Colombia	12	148,164	1,777,973
Costa Rica	26	97,208	2,527,417
Dominican Republic	8	186,125	1,489,000
Ecuador	9	462,753	4,164,777
El Salvador	2	167,471	334,942
Grenada	1	550,000	550,000

Table 15: S&T Funding by Region and Country (Continued)

	Annual Funding (\$) per Country		
	-N-	Average	Total
<b>Latin America (cont.)</b>			
Guatemala	13	1,022,514	13,292,683
Guyana	1	2,000	2,000
Haiti	7	592,857	4,150,000
Honduras	6	142,917	857,500
Jamaica	10	117,315	1,173,148
Mexico	94	301,809	28,370,065
Nicaragua	1	9,942	9,942
Panama	2	606,560	1,213,119
Paraguay	2	292,110	584,220
Peru	15	162,662	2,439,931
Trinidad and Tobago	1	3,725	3,725
Uruguay	2	8,230	16,460
Venezuela	29	133,740	3,878,454
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 16: S&T Funding by Region, Agency, Sector

				Annual Funding (\$) per Sector		
				-N-	Average	Total
<b>Region</b>						
<b>Federal Agency</b>						
<b>Sector</b>						
<b>Worldwide</b>						
<b>DHHS</b>						
Health	10	7,010,000	70,100,000			
<b>DOC</b>						
Earth SCI/Atmosp	2	0	0			
Earth SCI/Oceans	1	0	0			
Earth SCI/Terres	3	0	0			
Social Sciences	2	2,204,500	4,409,000			
Space Sciences	1	0	0			
Techno/Industry	1	600,000	600,000			
<b>DOI</b>						
Earth SCI/Terres	1	3,000,000	3,000,000			
<b>NASA</b>						
Earth SCI/Terres	1	900,000	900,000			
<b>USAID</b>						
Agriculture	30	965,278	28,958,333			
Education	3	566,667	1,700,000			
Energy	5	546,000	2,730,000			
Environment	5	2,070,000	10,350,000			
Health	29	2,216,379	64,275,000			
Population	3	10,466,667	31,400,000			
Social Sciences	2	800,000	1,600,000			
<b>USDA</b>						
Agriculture	2	891,834	1,783,667			
<b>Africa</b>						
<b>DHHS</b>						
Health	28	545,315	15,268,829			
<b>DOI</b>						
Agriculture	1	300,000	300,000			
Earth SCI/Terres	3	3,485	10,454			
Other Life SCI	7	71,429	500,003			
<b>EPA</b>						
Environment	6	12,500	75,000			
<b>NSF</b>						
Chemistry	2	8,109	16,218			
Earth SCI/Terres	18	64,270	1,156,865			
Environment	1	3,200	3,200			
Mathematics	1	6,830	6,830			
Other Life SCI	3	60,553	181,658			
Social Sciences	5	29,964	149,820			

Table 16: S&T Funding by Region, Agency, Sector (Continued)

	Annual Funding (\$) per Sector		
	-N-	Average	Total
<b>Africa (cont.)</b>			
<b>USAID</b>			
Agriculture	46	497,493	22,884,684
Education	13	612,500	7,952,500
Energy	3	243,333	730,000
Environment	8	561,965	4,495,716
Health	11	842,035	9,262,381
Population	5	446,666	2,233,332
Social Sciences	4	180,000	720,000
<b>USDA</b>			
Agriculture	3	3,152,333	9,457,000
<b>Asia/Near East</b>			
<b>DHHS</b>			
Health	68	770,133	52,369,048
<b>DOC</b>			
Earth SCI/Atmosp	1	200,000	200,000
Earth SCI/Oceans	3	13,333	40,000
Social Sciences	1	100,000	100,000
Space Sciences	1	100,000	100,000
Techno/Industry	5	52,000	260,000
<b>DOE</b>			
Energy	4	0	0
<b>DOI</b>			
Agriculture	2	5,000	10,000
Earth SCI/Terres	21	26,948	565,908
Environment	8	55,625	445,000
<b>DOS</b>			
Health	1	0	0
SCI Policy/Umbr	7	0	0
<b>DOT</b>			
Techno/Industry	4	0	0
<b>EPA</b>			
Environment	10	143,200	1,432,000
<b>HUD</b>			
Social Sciences	1	30,000	30,000
<b>NASA</b>			
Earth SCI/Terres	1	150,000	150,000
<b>NRC</b>			
Energy	4	0	0
<b>NSF</b>			
Chemistry	10	10,208	102,081
Earth SCI/Atmosp	5	82,268	411,338
Earth SCI/Oceans	8	83,751	670,007
Earth SCI/Terres	56	30,373	1,700,893

Table 16: S&T Funding by Region, Agency, Sector (Continued)

	Annual Funding (\$) per Sector		
	-N-	Average	Total
<b>Asia/Near East (cont.)</b>			
<b>NSF (cont.)</b>			
Engineering	67	33,982	2,276,765
Environment	4	35,735	142,939
Mathematics	3	14,140	42,420
Other Life SCI	36	40,310	1,451,155
Physics	29	26,341	763,895
Social Sciences	22	50,512	1,111,273
Space Sciences	9	14,692	132,225
<b>USAID</b>			
Agriculture	37	1,103,453	40,827,750
Education	17	698,529	11,875,000
Energy	21	1,838,302	38,604,334
Environment	8	155,536	1,244,287
Health	25	761,476	19,036,905
Population	8	741,667	5,933,332
Social Sciences	1	200,000	200,000
Techno/Industry	6	1,083,333	6,500,000
<b>USDA</b>			
Agriculture	58	9,983	579,000
<b>Latin America</b>			
<b>DHHS</b>			
Health	33	676,125	22,312,125
<b>DOC</b>			
Social Sciences	4	175,000	700,000
Techno/Industry	3	50,000	150,000
<b>DOE</b>			
Energy	6	0	0
<b>DOI</b>			
Earth SCI/Terres	16	24,602	393,635
Environment	29	47,241	1,370,000
<b>DOS</b>			
SCI Policy/Umbr	4	0	0
<b>DOT</b>			
Techno/Industry	2	0	0
<b>EPA</b>			
Environment	3	18,333	55,000
<b>NASA</b>			
Earth SCI/Atmosp	1	3,000,000	3,000,000
Earth SCI/Terres	4	176,250	705,000
Health	1	750,000	750,000
Space Sciences	1	275,000	275,000
<b>NRC</b>			
Energy	5	0	0

Table 16: S&T Funding by Region, Agency, Sector (Continued)

	Annual Funding (\$) per Sector		
	-N-	Average	Total
Latin America (cont.)			
<b>NSF</b>			
Chemistry	18	7,370	132,665
Earth SCI/Atmosp	4	46,442	185,766
Earth SCI/Oceans	22	116,228	2,557,007
Earth SCI/Terres	48	45,850	2,200,823
Engineering	28	23,475	657,286
Environment	1	233,251	233,251
Mathematics	17	7,987	135,786
Other Life SCI	54	30,310	1,636,744
Physics	23	26,425	607,775
Social Sciences	8	10,537	84,294
Space Sciences	15	31,506	472,596
<b>USAID</b>			
Agriculture	26	396,349	10,305,084
Education	19	339,079	6,442,500
Energy	6	68,611	411,667
Environment	8	410,750	3,286,000
Health	14	118,622	1,660,714
Population	3	212,778	638,333
Social Sciences	4	86,750	347,000
Techno/Industry	1	140,000	140,000
<b>USDA</b>			
Agriculture	25	1,399,513	34,987,834
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

Table 17: S&T Funding by Region, Sector and Agency

	Annual Funding (\$) per Agency		
	-N-	Average	Total
Region			
Sector			
Federal Agency			
<b>Worldwide</b>			
<b>Agriculture</b>			
USAID	30	965,278	28,958,333
USDA	2	891,834	1,783,667
<b>Earth SCI/Atmosp</b>			
DOC	2	0	0
<b>Earth SCI/Oceans</b>			
DOC	1	0	0
<b>Earth SCI/Terres</b>			
DOC	3	0	0
DOI	1	3,000,000	3,000,000
NASA	1	900,000	900,000
<b>Education</b>			
USAID	3	566,667	1,700,000
<b>Energy</b>			
USAID	5	546,000	2,730,000
<b>Environment</b>			
USAID	5	2,070,000	10,350,000
<b>Health</b>			
DHHS	10	7,010,000	70,100,000
USAID	29	2,216,379	64,275,000
<b>Population</b>			
USAID	3	10,466,667	31,400,000
<b>Social Sciences</b>			
DOC	2	2,204,500	4,409,000
USAID	2	800,000	1,600,000
<b>Space Sciences</b>			
DOC	1	0	0
<b>Techno/Industry</b>			
DOC	1	600,000	600,000
<b>Africa</b>			
<b>Agriculture</b>			
DOI	1	300,000	300,000
USAID	46	497,493	22,884,684
USDA	3	3,152,333	9,457,000
<b>Chemistry</b>			
NSF	2	8,109	16,218
<b>Earth SCI/Terres</b>			
DOI	3	3,485	10,454
NSF	18	64,270	1,156,865
<b>Education</b>			
USAID	13	612,500	7,962,500

Table 17: S&T Funding by Region, Sector and Agency (Continued)

	Annual Funding (\$) per Agency		
	-N-	Average	Total
<b>Africa (cont.)</b>			
<b>Energy</b>			
USAID	3	243,333	730,000
<b>Environment</b>			
EPA	6	12,500	75,000
NSF	1	3,200	3,200
USAID	8	561,965	4,495,716
<b>Health</b>			
DHHS	28	545,315	15,268,829
USAID	11	842,035	9,262,381
<b>Mathematics</b>			
NSF	1	6,830	6,830
<b>Other Life SCI</b>			
DOI	7	71,429	500,003
NSF	3	60,553	181,658
<b>Population</b>			
USAID	5	446,666	2,233,332
<b>Social Sciences</b>			
NSF	5	29,964	149,820
USAID	4	180,000	720,000
<b>Asia/Near East</b>			
<b>Agriculture</b>			
DOI	2	5,000	10,000
USAID	37	1,103,453	40,827,750
USDA	58	9,983	579,000
<b>Chemistry</b>			
NSF	10	10,208	102,081
<b>Earth SCI/Atmosp</b>			
DOC	1	200,000	200,000
NSF	5	82,268	411,338
<b>Earth SCI/Oceans</b>			
DOC	3	13,333	40,000
NSF	8	83,751	670,007
<b>Earth SCI/Terres</b>			
DOI	21	26,948	565,908
NASA	1	150,000	150,000
NSF	56	30,373	1,700,893
<b>Education</b>			
USAID	17	698,529	11,875,000
<b>Energy</b>			
DOE	4	0	0
NRC	4	0	0
USAID	21	1,838,302	38,604,334
<b>Engineering</b>			
NSF	67	33,982	2,276,765

Table 17: S&T Funding by Region, Sector and Agency (Continued)

	Annual Funding (\$) per Agency		
	-N-	Average	Total
<b>Asia/Near East (cont.)</b>			
<b>Environment</b>			
DOI	8	55,625	445,000
EPA	10	143,200	1,432,000
NSF	4	35,735	142,939
USAID	8	155,536	1,244,287
<b>Health</b>			
DHHS	68	770,133	52,369,048
DOS	1	0	0
USAID	25	761,476	19,036,905
<b>Mathematics</b>			
NSF	3	14,140	42,420
<b>Other Life SCI</b>			
NSF	36	40,310	1,451,155
<b>Physics</b>			
NSF	29	26,341	763,895
<b>Population</b>			
USAID	8	741,667	5,933,332
<b>SCI Policy/Umbr</b>			
DOS	7	0	0
<b>Social Sciences</b>			
DOC	1	100,000	100,000
HUD	1	30,000	30,000
NSF	22	50,512	1,111,273
USAID	1	200,000	200,000
<b>Space Sciences</b>			
DOC	1	100,000	100,000
NSF	9	14,692	132,225
<b>Techno/Industry</b>			
DOC	5	52,000	260,000
DOT	4	0	0
USAID	6	1,083,333	6,500,000
<b>Latin America</b>			
<b>Agriculture</b>			
USAID	26	396,349	10,305,084
USDA	25	1,399,513	34,987,834
<b>Chemistry</b>			
NSF	18	7,370	132,665
<b>Earth SCI/Atmosp</b>			
NASA	1	3,000,000	3,000,000
NSF	4	46,442	185,766
<b>Earth SCI/Oceans</b>			
NSF	22	116,228	2,557,007
<b>Earth SCI/Terres</b>			
DOI	16	24,602	393,635

Table 17: S&T Funding by Region, Sector and Agency (Continued)

	Annual Funding (\$) per Agency		
	-N-	Average	Total
<b>Latin America (cont.)</b>			
<b>Earth SCI/Terres (cont.)</b>			
NASA	4	176,250	705,000
NSF	48	45,850	2,200,823
<b>Education</b>			
USAID	19	339,079	6,442,500
<b>Energy</b>			
DOE	6	0	0
NRC	5	0	0
USAID	6	68,611	411,667
<b>Engineering</b>			
NSF	28	23,475	657,286
<b>Environment</b>			
DOI	29	47,241	1,370,000
EPA	3	18,333	55,000
NSF	1	233,251	233,251
USAID	8	410,750	3,286,000
<b>Health</b>			
DHHS	33	676,125	22,312,125
NASA	1	750,000	750,000
USAID	14	118,622	1,660,714
<b>Mathematics</b>			
NSF	17	7,987	135,786
<b>Other Life SCI</b>			
NSF	54	30,310	1,636,744
<b>Physics</b>			
NSF	23	26,425	607,775
<b>Population</b>			
USAID	3	212,778	638,333
<b>SCI Policy/Umbr</b>			
DOS	4	0	0
<b>Social Sciences</b>			
DOC	4	175,000	700,000
NSF	8	10,537	84,294
USAID	4	86,750	347,000
<b>Space Sciences</b>			
NASA	1	275,000	275,000
NSF	15	31,506	472,596
<b>Techno/Industry</b>			
DOC	3	50,000	150,000
DOT	2	0	0
USAID	1	140,000	140,000
<b>TOTAL</b>	<b>1297</b>	<b>449,778</b>	<b>583,361,930</b>

# **CHAPTER VI**

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## **PROJECT REFERENCE GUIDE**

- **PROJECT LIST**
- **INDEX OF KEY WORDS**

# **APPENDIX A**

Science & Technology Projects listed by Agency -- Agencies other than NSF

REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
1	DHHS	Health	U.S.-China Cooperation in Health and Medical Sciences	China	500,000	Dr. Peter Henry	(301) 443-4010
2	DHHS	Health	US - Egypt Cooperative Health Program	Egypt	3,000,000	Mr. Richard Walling	(301) 443-4549
3	DHHS	Health	Emergency Medicine and Trauma Technology	India	50,000	Dr. George Dines	(301) 443-6152
4	DHHS	Health	Indo-US Vaccine Action Program	India	1,200,000	Linda A. Vogel	(301) 443-1774
5	DHHS	Health	US - India Health Cooperation	India	1,200,000	Linda A. Vogel	(301) 443-1774
6	DHHS	Health	Food, Drug and Biologicals Technical Cooperations Missions	Multicountry	500,000	Walter Batts	(301) 443-4480
7	DHHS	Health	International Dental Research	Multicountry	2,400,000	Dr. Lois Cohen	(301) 496-7723
8	DHHS	Health	International Cooperation on Neurological Disorders and Stroke	Multicountry	10,800,000	Dr. Joseph Culhane	(301) 496-9271
9	DHHS	Health	International Cooperation on Environmental Health Sciences	Multicountry	4,000,000	Dr. Terri Damstra	(919) 541-3467
10	DHHS	Health	Africa Child Survival Initiative: Combatting Childhood Communicable Diseases	Multicountry	7,000,000	Dr. Joe Davis	(404) 639-0335
11	DHHS	Health	Foreign Epidemiology Training Program	Multicountry	1,000,000	Dr. Joe Davis	(404) 639-0335
12	DHHS	Health	International Cooperation on Research Resources	Multicountry	900,000	Dr. Betty Doolittle	(301) 496-5793
13	DHHS	Health	International Cooperation on Heart, Lung, & Blood Research	Multicountry	7,000,000	Dr. Ruth Hegyeli	(301) 496-5375
14	DHHS	Health	Health Science Communications	Multicountry	300,000	Dr. Richard Hsieh	(301) 496-6481
15	DHHS	Health	International Health Statistics Cooperation	Multicountry	200,000	Mr. Robert Israel	(301) 436-7016
16	DHHS	Health	International Cooperation on Metal Health	Multicountry	500,000	Mr. Edward Kelty	(301) 443-1828
17	DHHS	Health	International Cooperation on Aging	Multicountry	2,100,000	Dr. Samuel Korper	(301) 496-3133
18	DHHS	Health	Vaccine Research and Development	Multicountry	1,500,000	Dr. Feng Ying Lin	(301) 443-0715
19	DHHS	Health	International Cooperation on Drug Abuse	Multicountry	500,000	Dr. Richard Lindblad	(301) 443-4877
20	DHHS	Health	International Cooperation on Child Health and Human Development	Multicountry	5,000,000	Dr. Charles U. Lowe	(301) 496-2500
21	DHHS	Health	International Cooperation on Alcoholism and Alcohol Abuse	Multicountry	300,000	Mr. Leland Towle	(301) 443-2593
22	DHHS	Health	International Cooperation on Prevention of Blindness Program	Multicountry	3,000,000	Dr. Barbara Underwood	(301) 496-4876
23	DHHS	Health	International Cooperation in Cancer Research	Multicountry	20,000,000	Dr. Federico Welsch	(301) 496-4761
24	DHHS	Health	International Collaboration in Infectious Disease Research Awards	Multicountry	2,500,000	Dr. Karl Western	(301) 496-1886
25	DHHS	Health	International Collaboration in AIDS Research	Multicountry	3,000,000	Dr. Karl Western	(301) 496-1886
26	DHHS	Health	International Cooperation on Allergy and Infectious Diseases	Multicountry	11,500,000	Dr. Karl Western	(301) 496-1886
27	DHHS	Health	FDA Visiting Scientist Program	Worldwide	1,500,000	Walter Batts	(301) 443-4480
28	DHHS	Health	International Training Grants in Epidemiology related to AIDS	Worldwide	2,000,000	Dr. Kenneth Bridbord	(301) 496-2516
29	DHHS	Health	NIH Guest Researchers Program	Worldwide	0	Dr. Kenneth A. Collins	(301) 496-6166
30	DHHS	Health	Visiting Program: Fellows, Associates, Scientists	Worldwide	49,600,000	Dr. Kenneth A. Collins	(301) 496-6166
31	DHHS	Health	NIH Special Volunteers	Worldwide	0	Dr. Kenneth A. Collins	(301) 496-6166
32	DHHS	Health	International Cooperation of Diabetes and Digestive and Kidney Diseases	Worldwide	8,700,000	Dr. Nancy Cummings	(301) 496-9091
33	DHHS	Health	Visitors and Training Program	Worldwide	300,000	Dr. Joe Davis	(404) 639-0335
34	DHHS	Health	International Cooperation in General Medical Sciences	Worldwide	3,000,000	Dr. Americo Rivera	(301) 496-7001
35	DHHS	Health	Fogarty International Scholars-in-Residence Program	Worldwide	800,000	Dr. Jack R. Schmidt	(301) 496-4161
36	DHHS	Health	International Research Fellowship Program	Worldwide	4,200,000	Dr. David Wolff	(301) 496-6688
37	DOC	Earth SCI/Atmos	Indo-US Climate Research Program	India	200,000	Dr. Thomas E. Murray	(301) 427-2469
38	DOC	Earth SCI/Atmos	World Data Center A for Solar-Terrestrial Physics	Worldwide	0	Joe Allen	(303) 497-6323
39	DOC	Earth SCI/Atmos	World Data Center A for Meteorology	Worldwide	0	Gus Shumbera	(FTS) 672-0474

Science & Technology Projects listed by Agency -- Agencies other than NSF

REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
40	DOC	Earth SCI/Ocean	US/PRC Protocol on Cooperation in Marine and Fishery Science and Technology	China	30,000	Barbara Moore	(301) 427-2469
41	DOC	Earth SCI/Ocean	Collaboration in Climate and Related Investigations	Indonesia	5,000	James Buizer	(301) 427-2474
42	DOC	Earth SCI/Ocean	Memorandum of Understanding between NOAA and IOLR	Israel	5,000	Linda Kupfer	(301) 427-2469
43	DOC	Earth SCI/Ocean	World Data Center A for Oceanography	Worldwide	0	Ron Moffatt	(202) 673-5571
44	DOC	Earth SCI/Terre	World Data Center A for Glaciology (Snow and Ice)	Worldwide	0	Roger Barry	(303) 492-5171
45	DOC	Earth SCI/Terre	World Data Center A for Marine Geology and Geophysics	Worldwide	0	Michael Loughridge	(303) 497-6487
46	DOC	Earth SCI/Terre	World Data Center A (WDC-A) for Solid-Earth Geophysics	Worldwide	0	Herbert Meyers	(303) 497-6521
47	DOC	Social Sciences	ESAYTEC Joint Training Program with Mexico	Multicountry	200,000	Preston Brown	(301) 763-4830
48	DOC	Social Sciences	Institute for Hemispheric Studies	Multicountry	500,000	J. H. Bryant	(809) 250-0410
49	DOC	Social Sciences	Census of the Federated States of Micronesia	Oceania	100,000	Thomas C. Walsh	(301) 763-2832
50	DOC	Social Sciences	Technical Assistance in Statistics and Statistical Data Processing	Worldwide	200,000	Larry Patin	(301) 763-2750
51	DOC	Social Sciences	ISPC Statistical Training Programs	Worldwide	209,000	Les Solomon	(301) 763-2860
52	DOC	Space Sciences	Coordinated Studies of Solar Radiations and Solar Activity and Energetic Mass Ejections	India	100,000	Dr. Murray Dryer	(FTS) 320-3311
53	DOC	Space Sciences	GOES Geostationary and NOAA Polar-Orbiting	Worldwide	0	Carl Staton	(301) 763-8325
54	DOC	Techno/Industry	US Brazil Basic Sciences Initiative	Brazil	150,000	Dr. Kenneth Gordon	(301) 975-2664
55	DOC	Techno/Industry	Exchange of Information and Researchers	China	5,000	Dr. Kenneth Gordon	(301) 975-2664
56	DOC	Techno/Industry	Collaborative Research in Physical Sciences	India	5,000	Dr. Kenneth Gordon	(301) 975-2664
57	DOC	Techno/Industry	Exchange of Information and Scientists	Mexico	0	Dr. Kenneth Gordon	(301) 975-2664
58	DOC	Techno/Industry	Exchanges of Scientific Information and Scientists	Pakistan	0	Dr. Kenneth Gordon	(301) 975-2664
59	DOC	Techno/Industry	Standard Assistance	Saudi Arabia	250,000	Dr. Kenneth Gordon	(301) 975-2664
60	DOC	Techno/Industry	Science and Technology Development Cooperation	Thailand	0	Dr. Kenneth Gordon	(301) 975-2664
61	DOC	Techno/Industry	Exchange of Information and Scientists	Venezuela	0	Dr. Kenneth Gordon	(301) 975-2664
62	DOC	Techno/Industry	Guest Researcher Program for Collaborative Research at NIST Labs	Worldwide	600,000	Dr. Kenneth Gordon	(301) 975-2664
63	DOE	Energy	Coal Gasification Technology Development Project at Triunfo in Rio Grande do Sul	Brazil	0	Moustafa Soliman	(202) 586-5904
64	DOE	Energy	Clean Coal Technology Cooperation	Chile	0	Kathleen Rees	(202) 586-5902
65	DOE	Energy	Cooperation in High Energy Physics, Nuclear Physics, and Magnetic Fusion	China	0	T. K. Lau	(202) 586-9249
66	DOE	Energy	Cooperation in Fossil Energy Technology (157), Coal Preparation and Waste Stream Utilization (225), & Information Exchg.	China	0	T. K. Lau	(202) 586-9249
67	DOE	Energy	Exploration of the Relationship between Climate Change and Atmospheric Levels of CO2	China	0	Kathleen Rees	(202) 586-5902
68	DOE	Energy	Clean Coal Technology Cooperation	Costa Rica	0	Kathleen Rees	(202) 586-5902
69	DOE	Energy	Energy Research and Information Exchange on Mexican Geothermal Reservoirs in Sedimentary and Fractured Igneous Rocks	Mexico	0	Kathleen Rees	(202) 586-5902
70	DOE	Energy	Renewable Energy Research and Development Cooperation	Saudi Arabia	0	Moustafa Soliman	(202) 586-5904
71	DOE	Energy	Energy Research and Development Cooperation in Conservation	Venezuela	0	Moustafa Soliman	(202) 586-5904
72	DOE	Energy	Cooperation in Oil Recovery, Coal Technologies, Enhanced Thermal Processes: Ref: 73, 74, 75, 82, 100, 215, 238.	Venezuela	0	Moustafa Soliman	(202) 586-5904

Science & Technology Projects listed by Agency -- Agencies other than NSF

REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
73	DOI	Agriculture	Germpasm Enhancement for Drought Tolerance and Reclamation of Wastelands--Rehabilitation of Mined Wastelands	India	5,000	Larry P. Gough	(303) 236-5513
74	DOI	Agriculture	Ministry of Agriculture S&T	Israel	5,000	Samir D. Guy	(202) 208-5235
75	DOI	Agriculture	Sahel Water Data Network and Management III	West Africa	300,000	Dr. Donald C. Moore	(FTS) 753-7008
76	DOI	Earth SCI/Terre	Mineral Resource Assessment of the Altiplano	Bolivia	0	Darrell Herd	(703) 648-6012
77	DOI	Earth SCI/Terre	Fluid Inclusion Study of Paleotemperatures and Oil Generation in the Parana Basin, Brazil	Brazil	5,000	Charles Barker	(303) 236-5797
78	DOI	Earth SCI/Terre	China Digital Seismograph Network	China	25,000	William Bakun	(415) 329-4793
79	DOI	Earth SCI/Terre	Genetic and Descriptive Model of Bayan Obo Iron-Niobium-Rare Earth Deposits, Inner Mongolia	China	5,000	Dr. Edward C. T. Chao	(703) 648-6052
80	DOI	Earth SCI/Terre	Petroleum Geochemistry Research	China	5,000	Jerry Clayton	(303) 236-9379
81	DOI	Earth SCI/Terre	Strategic and Critical Minerals Program: Platinum Group Element Research	China	30,000	Richard Grauch	(303) 236-5551
82	DOI	Earth SCI/Terre	United States - PRC Surface-water Hydrology Protocol	China	50,000	Anna Lenox	(703) 648-5053
83	DOI	Earth SCI/Terre	Geochemical Anomalies	China	5,000	David B. Smith	(303) 236-1800
84	DOI	Earth SCI/Terre	Training in Uranium Exploration	Egypt	5,000	Charles Pierson	(303) 236-1537
85	DOI	Earth SCI/Terre	Analysis and Interpretation of Oil and Gas Seeps/Shows	Honduras	5,000	Donald L. Gautier	
86	DOI	Earth SCI/Terre	Central Ground Water Board (CGWB) Ground Water Training/Research	India	300,000	Anna Lenox	(703) 648-5053
87	DOI	Earth SCI/Terre	Environmental Model for Water Quality of India Coal Mines Including Cost Effective Treatment Technology	India	5,000	Brent Wahlquist	(202) 208-4264
88	DOI	Earth SCI/Terre	Conceptual Environmental Management Plan for Coal Mines in India (Singrauli Coalfield).	India	5,000	Brent Wahlquist	(202) 208-4264
89	DOI	Earth SCI/Terre	Conceptual Environmental Management Plan - Jharia Coalfield	India	5,000	Brent Wahlquist	(202) 208-4264
90	DOI	Earth SCI/Terre	Kinetics of Kerogen Thermal Maturation and Oil Generation as measured by Vitrinite Reflectance	Israel	5,000	Charles Barker	(303) 236-5797
91	DOI	Earth SCI/Terre	Technical Services and Feasibility Studies V	Jordan	80,000	Frederick O. Simon	(703) 648-6055
92	DOI	Earth SCI/Terre	Collaborative Research on Large Thrust Earthquakes that have occurred along the Cocos-N. Am. Plate Boundary of W. Mexico	Mexico	55,000	Robert P. Masse	(303) 236-1510
93	DOI	Earth SCI/Terre	Computer-assisted Change Detection for 1:50,000-scale Map Revision in Mexico using Satellite Data.	Mexico	5,000	Ric Sanchez	(703) 648-5121
94	DOI	Earth SCI/Terre	Understanding Earthquakes and Mitigating their Effects Training Course	Multicountry	30,000	Charles Bufe	(303) 236-1672
95	DOI	Earth SCI/Terre	Training in Volcanic-hosted Precious-metal Deposits in South America	Multicountry	300,000	Charles G. Cunningham	
96	DOI	Earth SCI/Terre	Marsyangdi Hydroelectric Project	Nepal	0	Anna Lenox	(703) 648-5053
97	DOI	Earth SCI/Terre	Petroleum Geochemistry of Benue Trough	Nigeria	5,000	Donald Anders	(303) 236-9381
98	DOI	Earth SCI/Terre	Training in Earthquake Recurrence as seen in Trenches across Faults	Philippines	30,000	David Schwartz	(415) 329-5651
99	DOI	Earth SCI/Terre	Technical Assistance to the Directorate General for Mineral Resources	Saudi Arabia	0	Frederick O. Simon	(703) 648-6055
100	DOI	Earth SCI/Terre	USGS/Abu Dhabi National Drilling Company (NDC) Ground Water Research Project	U Arab Emirates	0	Anna Lenox	(703) 648-5053
101	DOI	Earth SCI/Terre	Oil and Gas Resource Assessment	Venezuela	5,000	Donald L. Gautier	
102	DOI	Earth SCI/Terre	Cooperative Mineral Resource Assessment and Exploration	Venezuela	0	Darrell Herd	(703) 648-6012

Science & Technology Projects listed by Agency -- Agencies other than NSF

REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
103	DOI	Earth SCI/Terre	Pilot Project: Application of Satellite Data for Scale-true Mapping at 1:50,000-scale in Un-mapped Areas of Venezuela	Venezuela	5,000	Ric Sanchez	(703) 648-5121
104	DOI	Earth SCI/Terre	Development and Testing of the Global Telemetered Seismograph Network System	Worldwide	3,000,000	Robert P. Masse	(303) 236-1510
105	DOI	Environment	Graduate Program in Wildlife Management	Argentina	100,000	H. Raffaele	
106	DOI	Environment	Graduate Program in Ecology, Conservation and Wildlife Management	Brazil	100,000	H. Raffaele	
107	DOI	Environment	Research and Monitoring of Coral Resources in Protected Areas	Caribbean	5,000	Dr. Carolyn Rogers	(809) 775-6238
108	DOI	Environment	US - PRC Nature Conservation Protocol	China	75,000	Steven G. Kohl	(703) 358-1762
109	DOI	Environment	Chinese Planning and Land Records Project	China	30,000	Christopher Muller	(FTS) 653-8824
110	DOI	Environment	Center for Biological Documentation (BioDoc)	Costa Rica	30,000	H. Raffaele	
111	DOI	Environment	Graduate Program in Wildlife Management	Costa Rica	200,000	H. Raffaele	
112	DOI	Environment	Special Foreign Currency Program - Egypt	Egypt	5,000	David Ferguson	(703) 358-1758
113	DOI	Environment	Wildlife Institute of India/FWS Collaborative Project	India	120,000	Fred Bagley	
114	DOI	Environment	Special Foreign Currency Program - US India Fund	India	5,000	David Ferguson	(703) 358-1758
115	DOI	Environment	Israeli Oceanographic and Limnological Research (IOLR)	Israel	5,000	Sammie D. Guy	(202) 208-5235
116	DOI	Environment	Wintering Ecology of Northern Pintails on Upper East Coast of Mexico	Mexico	30,000	Dr. Guy Baldassarre	(315) 470-6739
117	DOI	Environment	Ecology of Redhead Duck in Laguna Modre de Tamauhpas in Mexico	Mexico	5,000	Dr. Carroll Cordes	(504) 646-7564
118	DOI	Environment	Winter Ecology of Pacific Black Brant in Mexico	Mexico	30,000	Dirk Derksen	(907) 786-3525
119	DOI	Environment	Study of Ecology and Habitat of Peregrine Falcons along the US/Mexico Border	Mexico	5,000	Dr. Milford Fletcher	(505) 988-1870
120	DOI	Environment	Study of Ecology and Habitat of Black Bears along the US/Mexico Border	Mexico	5,000	Dr. Milford Fletcher	(505) 988-1870
121	DOI	Environment	Use of Habitat by Migrant Passerines	Mexico	5,000	Mercedes Foster	(202) 357-1970
122	DOI	Environment	Neotropical Migratory Bird Habitat Study	Mexico	0	Dr. John Haugh	
123	DOI	Environment	Evaluation of the Population of the Mexican Duck in the States of Jalisco and Durango	Mexico	30,000	Coppelia Hays	(703) 358-1821
124	DOI	Environment	Autumn migration of raptors	Mexico	5,000	Coppelia Hays	(703) 358-1821
125	DOI	Environment	Evaluation of the Populations of Sandhill Cranes in the State of Chihuahua	Mexico	5,000	Coppelia Hays	(703) 358-1821
126	DOI	Environment	Evaluation of Migratory Waterfowl Harvest at Selected Locations in Mexico	Mexico	30,000	Gary Kramer	(916) 934-2801
127	DOI	Environment	Waterfowl Hunting Harvest Evaluation in Chihuahua	Mexico	5,000	Gary Kramer	(916) 934-2801
128	DOI	Environment	Reserve Manager Training Program (RESERVA)	Mexico	200,000	H. Raffaele	
129	DOI	Environment	Tripartite Committee for Wetlands Conservation	Mexico	200,000	H. Raffaele	
130	DOI	Environment	Food Habits of the Snow Goose during Winter in the States of Chihuahua - Durango	Mexico	5,000	John Takekawa	(916) 756-1946
131	DOI	Environment	Distribution of Subpopulations of Greater White-fronted Geese on the Pacific Coast of Mexico	Mexico	30,000	John Takekawa	(916) 756-1946
132	DOI	Environment	White-Wing Dove	Mexico	5,000	Roy Tomlinson	(505) 766-3740
133	DOI	Environment	Waterfowl Surveys	Mexico	30,000	James Voelzer	(503) 231-6162
134	DOI	Environment	Desert Fishes Conservation	Mexico	5,000	Jack Williams	(FTS) 653-9202

Science & Technology Projects listed by Agency -- Agencies other than NSF

REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
135	DOI	Environment	Endangered Species Cooperative Activities in Mexico	Mexico	200,000	J. Woody	
136	DOI	Environment	Research and Monitoring of Ecology and Habitat of Migratory Birds	Multicountry	30,000	Dr. Ted Simons	(601) 872-2954
137	DOI	Environment	Special Foreign Currency Program - Pakistan	Pakistan	5,000	David Ferguson	(703) 358-1758
138	DOI	Environment	Training for Sri Lankan Department of Wildlife Conservation	Sri Lanka	200,000	Fred Bagley	
139	DOI	Environment	Graduate Program in Wildlife Mangement	Venezuela	75,000	H. Raffaele	
140	DOI	Other Life SCI	Famine Early Warning Systems	Multicountry	500,000	Dr. Donald G. Moore	(FTS) 753-7008
141	DOS	Health	Indo-U.S. Vaccine Action Program	India	0	Kathleen Gaaserud	(202) 647-4688
142	DOS	SCI Policy/Umbr	Agreement for Scientific and Technical Cooperation between U.S.A. and the Government of the Argentine Republic	Argentina	0	D. Bellis	(202) 647-4665
143	DOS	SCI Policy/Umbr	Agreement between the U.S.A. and the Federative Republic of Brazil Relating to Cooperation in Science and Technology	Brazil	0	D. Bellis	(202) 647-4665
144	DOS	SCI Policy/Umbr	Agreement between the U.S. and the People's Republic of China for Scientific and Technological Cooperation	China	0	Claire Hubbard	(202) 647-4711
145	DOS	SCI Policy/Umbr	Agreement Relating to Cooperation in the Areas of Science and Technology	Egypt	0	Philip Covington	(202) 647-4658
146	DOS	SCI Policy/Umbr	Subcommission on Science and Technology	India	0	Kathleen Gaaserud	(202) 647-4688
147	DOS	SCI Policy/Umbr	U.S. - India Fund (USIF)	India	0	Kathleen Gaaserud	(202) 647-4688
148	DOS	SCI Policy/Umbr	Indo-U.S. Science and Technology Initiative	India	0	Kathleen Gaaserud	(202) 647-4688
149	DOS	SCI Policy/Umbr	U.S. Indonesian Agreement for Cooperation in Scientific Research and Technological Development	Indonesia	0	Kathleen Gaaserud	(202) 647-4688
150	DOS	SCI Policy/Umbr	Agreement between the U.S.A. and Mexico for Scientific and Technical Cooperation	Mexico	0	D. Bellis	(202) 647-4665
151	DOS	SCI Policy/Umbr	Agreement Relating to Scientific and Technical Cooperation between the U.S.A. and the Mongolian People's Republic	Mongolia	0	Claire Hubbard	(202) 647-4711
152	DOS	SCI Policy/Umbr	Agreement for Scientific and Technological Cooperation between the USA and the Government of the Republic of Venezuela	Venezuela	0	D. Bellis	(202) 647-4665
153	DOT	Techno/Industry	Memorandum of Understanding - Cooperation & Transportation	Brazil	0	Bernestine Allen	(202) 366-4398
154	DOT	Techno/Industry	Memorandum of Understanding - Cooperation and Transportation	China	0	Bernestine Allen	(202) 366-4398
155	DOT	Techno/Industry	MOU concerning the Development of Technical Cooperation in Civil Aviation	China	0	Bernestine Allen	(202) 366-4398
156	DOT	Techno/Industry	MOU on Cooperation in Railway Science and Technology	China	0	Bernestine Allen	(202) 366-4398
157	DOT	Techno/Industry	Memorandum of Understanding - Cooperation & Transportation	China	0	Bernestine Allen	(202) 366-4398
158	DOT	Techno/Industry	Memorandum of Understanding - Cooperation & Transportation	Mexico	0	Bernestine Allen	(202) 366-4398
159	EPA	Environment	Indoor Air Pollution/Lung Cancer in Xuan Wei County and Air Pollution Effects on the Growth of Children's Lung Functions	China	0	Robert Chapman	(919) 541-6219
160	EPA	Environment	Joint Project to Evaluate CFC Substitutes for Household Refrigerators	China	222,000	John Hoffman	(FTS) 382-4036
161	EPA	Environment	Agreement on Cooperative Principles in the Area of Coalbed Methane Recovery and Use	China	200,000	Dina Kruger	(FTS) 245-3958
162	EPA	Environment	Pollutant Transformation, Fate & Transport Processes and Modeling	China	0	Rosemarie C. Russo	(404) 546-3134
163	EPA	Environment	Modeling of Air Pollution Transport and Transformation	China	0	William Wilson	(919) 541-2551
164	EPA	Environment	Environmental Health Research	China	500,000	Chieh Wu	(202) 382-5977

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REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
165	EPA	Environment	Environmental Processes and Effects Research	China	500,000	Chieh Wu	(202) 382-5977
166	EPA	Environment	Case study on the costs to Ecuador of Complying with the Montreal Protocol on Substances that Deplete the Ozone Layer	Ecuador	50,000	Stephen Andersen	(FTS) 475-9403
167	EPA	Environment	Interaction on Environmental and Genetic factors on Pregnancy Outcome	India	0	Bob Sonawane	(202) 382-7495
168	EPA	Environment	Pregnancy - Environmental & Genetic Factors Symposia	India	5,000	Bob Sonawane	(FTS) 382-7495
169	EPA	Environment	Health Risk Assessment Symposia	India	5,000	Bob Sonawane	(FTS) 382-7495
170	EPA	Environment	CFC-12 Recycling from Mobile Air Conditioning systems in Mexico: Elimination of CFC-Aerosol Propellants in Mexico	Mexico	0	Stephen Andersen	(FTS) 475-9403
171	EPA	Environment	Mexico City Bilateral Agreement	Mexico	5,000	Thomas M. Baines	(313) 668-4366
172	EPA	Environment	USA/Southern Africa INFOTERRA Regional Companionship PGM	Multicountry	75,000	Linda Spencer	(202) 382-5922
173	HUD	Social Sciences	Protocol on Building Construction and Urban Planning of the US-China S&T Agreement	China	30,000	John Geraghty	(202) 708-0770
174	NASA	Earth SCI/Atmos	NASA/Comissao Brasileira de Atividades Espaciais (COBAE) Cooperative Global Tropospheric Experiment	Brazil	3,000,000	Daniel V. Jacobs	(202) 453-8440
175	NASA	Earth SCI/Terre	NASA/University of Chile (Geographic Information System (GIS) Project)	Chile	30,000	Daniel V. Jacobs	(202) 453-8440
176	NASA	Earth SCI/Terre	NASA/Universidad de Chile (Crustal Dynamics Research Program)	Chile	300,000	Daniel V. Jacobs	(202) 453-8440
177	NASA	Earth SCI/Terre	NASA/National Geophysical Research Institute of India (Crustal Dynamics Project)	India	150,000	Daniel V. Jacobs	(202) 453-8440
178	NASA	Earth SCI/Terre	NASA/Mexican Instituto Oceanografico, Secretaria de Marina (Crustal Dynamics Project)	Mexico	300,000	Daniel V. Jacobs	(202) 453-8440
179	NASA	Earth SCI/Terre	NASA/Universidad Nacional de San Agustin (Crustal Dynamics Project)	Peru	75,000	Daniel V. Jacobs	(202) 453-8440
180	NASA	Earth SCI/Terre	NASA/USGS/UN (Global Resource Information Database Facility)	Worldwide	900,000	Daniel V. Jacobs	(202) 453-8440
181	NASA	Health	NASA/Secretariat of Health of the Government of Mexico (Malaria, Remote Sensing)	Mexico	750,000	Daniel V. Jacobs	(202) 453-8440
182	NASA	Space Sciences	NASA/SECYT SAC-B Astrophysics Engineering Demonstration Mission	Argentina	275,000	Daniel V. Jacobs	(202) 453-8440
183	NRC	Energy	NRC Memorandum of Understanding with Argentina on Nuclear Safety Information Exchange on Civil Power & Research Reactors	Argentina	0	Ronald Hauber	(301) 492-0344
184	NRC	Energy	NRC Arrangement with Brazil on Nuclear Safety Technical Information Exchange and Cooperation	Brazil	0	Ronald Hauber	(301) 492-0344
185	NRC	Energy	NRC Protocol with China covering Technical Information Exchange and Cooperation (NNSA) Nat'l Nuclear Safety Admin.	China	0	Ronald Hauber	(301) 492-0344
186	NRC	Energy	NRC Arrangement with Egypt on Nuclear Safety Technical Information Exchange and Cooperation	Egypt	0	Ronald Hauber	(301) 492-0344
187	NRC	Energy	NRC Arrangement with Israel on Nuclear Safety Technical Information Exchange and Cooperation	Israel	0	Ronald Hauber	(301) 492-0344
188	NRC	Energy	NRC Umbrella Research Agreement with Mexico--Nuclear Safety Research	Mexico	0	Eric Beckjord	(301) 492-3718
189	NRC	Energy	NRC Implementing Procedures with Mexico on Nuclear Safety Technical Information Exchange & Cooperation	Mexico	0	Ronald Hauber	(301) 492-0344

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REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
190	NRC	Energy	NRC Letter Agreement with Peru Covering Nuclear Safety Documents and Information Exchange	Peru	0	Ronald Hauber	(301) 492-0344
191	NRC	Energy	NRC Arrangement with the Philippines on Nuclear Safety Information Exchange and Cooperation	Philippines	0	Ronald Hauber	(301) 492-0344
192	USAID	Agriculture	Agricultural Sector Support	Afghanistan	1,200,000	J. Morgan	(202) 647-9970
193	USAID	Agriculture	Improving Cassava for African Farmers Through Biotechnology	Africa	83,850	Dr. Joel Cohen	(703) 875-4219
194	USAID	Agriculture	Development and Testing of African Microbial Pesticides for the Control of Locust and Grasshoppers	Africa	300,000	John Gaudet	(202) 647-0467
195	USAID	Agriculture	International Fertilizer Development Center (Muscle Shoals, Alabama).	Africa	3,500,000	John Malcolm	(703) 875-4328
196	USAID	Agriculture	Strengthening African Agricultural Research Systems in 20 Sub-Saharan African Countries	Africa	4,900,000	Richard D. Newberg	(202) 647-8847
197	USAID	Agriculture	Africa Development Bank WID Strategy Assistance	Africa	75,000	Chloe O'Gara	(202) 647-3992
198	USAID	Agriculture	Systematics of Bagoini (Aquatic Weevils) to Enhance Biological Control of Aquatic Weeds	Africa	75,000	Floyd O'Quinn	(703) 875-4170
199	USAID	Agriculture	Famine Early Warning System Project	Africa	400,000	John W. Wiles	(202) 647-7202
200	USAID	Agriculture	Pre/Post Weaning Performance, Carcass Characteristics and Sexual Maturity of Barbados Black-belly Sheep	Barbados	75,000	Floyd O'Quinn	(703) 875-4170
201	USAID	Agriculture	Controlling Storage Root Development in Sweet Potato	Barbados	75,000	Floyd O'Quinn	(703) 875-4170
202	USAID	Agriculture	Use of Green Manures to Improve Soil Fertility in Corn Production in Belize	Belize	75,000	Floyd O'Quinn	(703) 875-4170
203	USAID	Agriculture	Pool Size and Turnover Time of Stable Soil Organic Matter in Tropical Croplands by C-13 and C-14 Methods	Belize	75,000	Floyd O'Quinn	(703) 875-4170
204	USAID	Agriculture	Funds for Bolivia Research Group	Bolivia	121,000	Darell McIntyre	*591-2-350-120
205	USAID	Agriculture	Bolivia Rural Survey	Bolivia	30,000	Chloe O'Gara	(202) 647-3992
206	USAID	Agriculture	Bolivia - Cochabamba Regional Development Project	Bolivia	30,000	Chloe O'Gara	(202) 647-3992
207	USAID	Agriculture	Optimizing the Utilization of Crop Residues by Ruminant Livestock	Burkina Faso	75,000	Floyd O'Quinn	(703) 875-4170
208	USAID	Agriculture	Hammer Mills	Cameroon	49,000	Andrea Baumann	(703) 875-4564
209	USAID	Agriculture	CATMI Maize Mills	Cameroon	140,000	Andrea Baumann	(703) 875-4564
210	USAID	Agriculture	Maize Planter	Cameroon	30,000	Andrea Baumann	(703) 875-4564
211	USAID	Agriculture	Biological Control of Grasshoppers and other Pests in Cape Verde	Cape Verde	200,000	John Gaudet	(202) 647-0467
212	USAID	Agriculture	Tree Crop Production	Central America	1,700,000	Jeffrey H. Allen	*502-2-321-739
213	USAID	Agriculture	Chad Rodent Population Management	Chad	100,000	John Gaudet	(202) 647-0467
214	USAID	Agriculture	Poultry Improvement Project	Dominican REP	34,000	Andrea Baumann	(703) 875-4564
215	USAID	Agriculture	Agricultural Sector Training	Dominican REP	600,000	Carlos Gonzalez	*809-541-2171
216	USAID	Agriculture	Role of Silage Microbial Mat as a Complete Natural Fish Feed System	Dominican REP	75,000	Floyd O'Quinn	(703) 875-4170
217	USAID	Agriculture	Agricultural Research, Extension and Education	Ecuador	900,000	David Alverson	(202) 647-4376
218	USAID	Agriculture	National Agricultural Research Program	Egypt	3,600,000	T. Johnson	(202) 647-9970
219	USAID	Agriculture	Irrigation Management Systems	Egypt	900,000	T. Johnson	(202) 647-9970
220	USAID	Agriculture	Gambia Agricultural Sector Assessment	Gambia, The	100,000	Chloe O'Gara	(202) 647-3992
221	USAID	Agriculture	Wool Products Processing Project	Guatemala	48,000	Andrea Baumann	(703) 875-4564
222	USAID	Agriculture	Guatemala Rural Export Development	Guatemala	100,000	Chloe O'Gara	(202) 647-3992

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REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
223	USAID	Agriculture	Targeted Watershed Management	Haiti	2,000,000	Kevin J. Mullally	*509-1-24812
224	USAID	Agriculture	Coffee Revitalization	Haiti	700,000	Kevin J. Mullally	*509-1-24812
225	USAID	Agriculture	Agricultural Research	India	600,000	John Becker	91-11-686-5301
226	USAID	Agriculture	Indo-US Science & Technology Initiative - Agriculture	India	513,000	John Malcolm	(703) 875-4328
227	USAID	Agriculture	Applied Agricultural Research	Indonesia	200,000	Jon Lindborg	*62-21-360-360
228	USAID	Agriculture	Upland Agriculture & Conservation Component: Applied Farming System Research	Indonesia	100,000	Richard Nishihara	*62-21-360-360
229	USAID	Agriculture	Economic Evaluation of Alternative Investment Opportunities in Upland Agriculture in Indonesia	Indonesia	75,000	Floyd O'Quinn	(703) 875-4170
230	USAID	Agriculture	Fish Research and Development	Indonesia	300,000	W. Scarborough	*62-21-360-360
231	USAID	Agriculture	Hillside Assessment Project	Jamaica	100,000	Mark Nolan	(809) 929-3752
232	USAID	Agriculture	Agricultural Research Project	Jamaica	600,000	Mark A. Smith	(809) 929-3752
233	USAID	Agriculture	National Agricultural Development	Jordan	1,500,000	D. Masters	(202) 647-9970
234	USAID	Agriculture	LAC WID Research	Latin America	200,000	Chloe O'Gara	(202) 647-3992
235	USAID	Agriculture	Agroforestry Workshop	Mali	75,000	Chloe O'Gara	(202) 647-3992
236	USAID	Agriculture	Food Security in Africa	Mali	110,000	Gloria D. Steele	(703) 875-4567
237	USAID	Agriculture	Planning, Economics, Statistics for Agriculture	Morocco	600,000	D. Young	(202) 647-7271
238	USAID	Agriculture	Dryland Agriculture Applied Research	Morocco	2,600,000	D. Young	(202) 647-7271
239	USAID	Agriculture	Access to Land, Water and Other Natural Resources II Project	Mozambique	230,000	Gloria D. Steele	(703) 875-4567
240	USAID	Agriculture	Food Security in Africa	Mozambique	350,000	Gloria D. Steele	(703) 875-4567
241	USAID	Agriculture	Mini-Dehullers	Multicountry	66,000	Andrea Baumann	(703) 875-4564
242	USAID	Agriculture	Treadle Pumps	Multicountry	26,000	Andrea Baumann	(703) 875-4564
243	USAID	Agriculture	Improved Animal Vaccines through Biotechnology: Phase I, Rinderpest	Multicountry	170,000	Dr. Joel Cohen	(703) 875-4219
244	USAID	Agriculture	Soil Management Collaborative Research Support Program (North Carolina State University).	Multicountry	2,835,000	John Malcolm	(703) 875-4328
245	USAID	Agriculture	Food Security in Africa	Multicountry	400,000	Gloria D. Steele	(703) 875-4567
246	USAID	Agriculture	Pond Dynamics/Aquaculture Collaborative Research Support Program (Oregon State University).	Multicountry	900,000	Dr. Lamarr Trott	(703) 875-4098
247	USAID	Agriculture	Fisheries Stock Assessment Collaborative Research Support Program (University of Maryland)	Multicountry	700,000	Dr. Lamarr Trott	(703) 875-4098
248	USAID	Agriculture	Reproductive Studies on Milkfish (Oceanic Institute, Hawaii).	Multicountry	1,200,000	Dr. Lamarr Trott	(703) 875-4098
249	USAID	Agriculture	Small Ruminant Collaborative Research Support Program	Multicountry	2,800,000	Joyce Turk	(703) 875-4081
250	USAID	Agriculture	Analysis of Agricultural Household Resource Distribution	Nepal	75,000	Chloe O'Gara	(202) 647-3992
251	USAID	Agriculture	Utilization of a Subsurface Plankton Peak to Enhance the Aquacultural Program in Lake Pheqa, Nepal	Nepal	75,000	Floyd O'Quinn	(703) 875-4170
252	USAID	Agriculture	Agricultural Research and Production	Nepal	950,000	Dharma R. S. Suwal	*977-211-171
253	USAID	Agriculture	Utilizing Agricultural By-products for Small Ruminants in Niger	Niger	75,000	Floyd O'Quinn	(703) 875-4170
254	USAID	Agriculture	South Pacific Fisheries Development	Oceania	75,000	Kathryn Boyd	*679-311-399
255	USAID	Agriculture	Omani-American Joint Commission	Oman	200,000	L. Voth	(202) 647-7061
256	USAID	Agriculture	Oman Marine Resources Technology	Oman	6,300,000	L. Voth	(202) 647-7061
257	USAID	Agriculture	Fisheries Development Management	Oman	3,000,000	L. Voth	(202) 647-7061
258	USAID	Agriculture	Forestry Planning and Development	Pakistan	900,000	J. Morgan	(202) 647-9970

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REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
259	USAID	Agriculture	Agriculture Sector Support Project (ASSP)	Pakistan	2,100,000	J. Snell	(202) 647-7201
260	USAID	Agriculture	Management of Agriculture Research and Technology (MART)	Pakistan	3,000,000	J. Snell	(202) 647-7201
261	USAID	Agriculture	Transformation and Integration of the Provincial Agriculture Network (TIPAN)	Pakistan	2,300,000	J. Snell	(202) 647-7201
262	USAID	Agriculture	Tribal Areas Development	Pakistan	300,000	J. Snell	(202) 647-7201
263	USAID	Agriculture	Irrigation Systems Management	Pakistan	500,000	J. Snell	(202) 647-7201
264	USAID	Agriculture	Soil Management Collaborative Research Support Program	Peru	200,000	Claudio Saito	*51-14-33-3200
265	USAID	Agriculture	Coco Charcoal Production	Philippines	27,000	Andrea Baumann	(703) 875-4564
266	USAID	Agriculture	PVO Co-Financing III	Philippines	800,000	J. Nussbaum	(202) 647-9624
267	USAID	Agriculture	Natural Resources Management Program	Philippines	6,000,000	J. Nussbaum	(202) 647-9624
268	USAID	Agriculture	Evaluation of Plant Derived Products for Protection of Beans and Sorghum in Rwandan Storages	Rwanda	75,000	Floyd O'Quinn	(703) 875-4170
269	USAID	Agriculture	Analysis of Tilapia Production Regimes in Rwanda	Rwanda	75,000	Floyd O'Quinn	(703) 875-4170
270	USAID	Agriculture	Assessment of Production of Small Ruminants in Sierra Leone	Sierra Leone	75,000	Floyd O'Quinn	(703) 875-4170
271	USAID	Agriculture	Regional Sunflower Press	Tanzania	37,000	Andrea Baumann	(703) 875-4564
272	USAID	Agriculture	Agriculture Technology Transfer Project	Thailand	700,000	Peter Deinken	*66-2-255-3650
273	USAID	Agriculture	Integrating Agriculture and Rural Employment in Thailand	Thailand	75,000	Floyd O'Quinn	(703) 875-4170
274	USAID	Agriculture	Access to Land, Water and Other Natural Resources II Project	Uganda	300,000	Gloria D. Steele	(703) 875-4567
275	USAID	Agriculture	Economic Analysis of Grasshopper Control in the Sahel	West Africa	75,000	John Gaudet	(202) 647-0467
276	USAID	Agriculture	Africa Emergency Locust/Grasshopper Assistance (AELGA) Project	West Africa	4,800,000	John Gaudet	(202) 647-0467
277	USAID	Agriculture	RDO/C WID Baseline Data	West Africa	75,000	Chloe O'Gara	(202) 647-3992
278	USAID	Agriculture	Sustainable Agricultural Systems	Worldwide	3,000,000	Dr. James Bonner	(703) 875-4337
279	USAID	Agriculture	Agricultural Policy Analysis Project (APAP)	Worldwide	1,800,000	Chris Brown	(703) 875-4015
280	USAID	Agriculture	Improved Animal Vaccines through Biotechnology: Phase II, Anaplasmosis/Babesiosis	Worldwide	2,600,000	Dr. Joel Cohen	(703) 875-4219
281	USAID	Agriculture	Biotechnology-Plant Tissue Culture (Cereals)	Worldwide	780,000	Dr. Joel Cohen	(703) 875-4219
282	USAID	Agriculture	Agricultural Biotechnology for Sustainable Productivity	Worldwide	1,000,000	Dr. Joel Cohen	(703) 875-4219
283	USAID	Agriculture	International Benchmark Sites Network for Agrotechnology Transfer (IDSNAT) - University of Hawaii	Worldwide	1,080,000	Dr. Tejpal S. Gill	(703) 875-4307
284	USAID	Agriculture	Financial Resources Management Project	Worldwide	500,000	Terry Hardt	(703) 875-4445
285	USAID	Agriculture	Communication and Technology Transfer in Agriculture	Worldwide	500,000	Terry Hardt	(703) 875-4445
286	USAID	Agriculture	Bean/Cowpea Collaborative Research Support Program (B/C-CRSP)	Worldwide	2,700,000	Harvey J. Hortik	(703) 875-4304
287	USAID	Agriculture	Integrated Pest Management (IPM) and Environmental Protection, including Biocontrol	Worldwide	600,000	Harvey J. Hortik	(703) 875-4304
288	USAID	Agriculture	Spring and Winter Wheat	Worldwide	255,000	Frank E. Mertens	(703) 875-4245
289	USAID	Agriculture	Postharvest Grain Systems.	Worldwide	425,000	Frank E. Mertens	(703) 875-4245
290	USAID	Agriculture	Soybean Utilization and Research	Worldwide	465,000	Frank E. Mertens	(703) 875-4245
291	USAID	Agriculture	Collaborative Research on Special Constraints of the International Agricultural Research Centers	Worldwide	100,000	Frank E. Mertens	(703) 875-4245
292	USAID	Agriculture	Research and Development of Improved Seed Production/Utilization in LDCs.	Worldwide	255,000	Frank E. Mertens	(703) 875-4245
293	USAID	Agriculture	Technology for Soil Moisture Management	Worldwide	500,000	Raymond E. Meyer	(703) 875-4122
294	USAID	Agriculture	Soil Management Support Services (USDA/SCS).	Worldwide	700,000	Raymond E. Meyer	(703) 875-4122

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295	USAID	Agriculture	Genetic Engineering of Sweet Potato for Improved Productivity	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
296	USAID	Agriculture	Developing Restriction Fragment Length Polymorphism Markers in Sweet Potato	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
297	USAID	Agriculture	Prevention of Aflatoxicosis in Domestic Animals with Hydrated Sodium/Calcium Alumino-Silicate	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
298	USAID	Agriculture	Developing Marketing Potentials for Vernonia Oil	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
299	USAID	Agriculture	Regional Cooperation	Worldwide	3,600,000	B. Porter	(202) 647-9970
300	USAID	Agriculture	Peanut Collaborative Research Support Program	Worldwide	2,100,000	Robert Schaffert	(703) 875-4320
301	USAID	Agriculture	Sorghum and Millet Collaborative Research Support Program (CRSP)	Worldwide	3,200,000	Robert Schaffert	(703) 875-4320
302	USAID	Agriculture	Improved Biological Nitrogen Fixation (BNF) Through Biotechnology (University of Hawaii).	Worldwide	1,140,000	Charles Sloger	(703) 875-4173
303	USAID	Agriculture	Aquaculture Research and Support (Auburn University).	Worldwide	250,000	Dr. Lamarr Trott	(703) 875-4098
304	USAID	Agriculture	Fishery Development Support Services (University of Rhode Island).	Worldwide	250,000	Dr. Lamarr Trott	(703) 875-4098
305	USAID	Agriculture	Agricultural Development Support	Yemen	1,900,000	L. Voth	(202) 647-7061
306	USAID	Agriculture	Farming Practices for Productivity	Yemen	44,000	L. Voth	(202) 647-7061
307	USAID	Agriculture	Zimbabwe Sunflower Project	Zimbabwe	47,000	Andrea Baumann	(703) 875-4564
308	USAID	Agriculture	Zimbabwe Agricultural Sector Assessment	Zimbabwe	30,000	Chloe O'Gara	(202) 647-3992
309	USAID	Agriculture	Characterization of Goat Production Systems in Rural Zimbabwe	Zimbabwe	75,000	Floyd O'Quinn	(703) 875-4170
310	USAID	Education	CARE Cameroon	Cameroon	100,000	Chloe O'Gara	(202) 647-3992
311	USAID	Education	University Linkages	Egypt	5,000,000	T. Johnson	(202) 647-9970
312	USAID	Education	Basic Education Strengthening Project: Education Administration Component, Applied Research Component	Guatemala	800,000	Richard Martin	*502-2-311-541
313	USAID	Education	Incentives to Improve Basic Education Research Component	Haiti	800,000	Mary Ann Cusack	*509-1-24812
314	USAID	Education	Primary Education Efficiency: Education Research Component	Honduras	75,000	Nadene Dutcher	*(504) 323-120
315	USAID	Education	Primary Education Assistance II, Student Testing Component	Jamaica	75,000	William Charlson	(809) 926-3646
316	USAID	Education	Education and Human Resources Technical Services Project, Cross-cutting Evaluations Component	Latin America	30,000	Ledo Garza	(202) 647-8158
317	USAID	Education	BEEP Mali	Mali	100,000	Chloe O'Gara	(202) 647-3992
318	USAID	Education	Educational Technology: Studies and Applications	Multicountry	1,100,000	James Hoxeng	(703) 875-4990
319	USAID	Education	Learning Technologies for Basic Education	Multicountry	2,600,000	James Hoxeng	(703) 875-4990
320	USAID	Education	Clearinghouse on Development Communication	Multicountry	300,000	James Hoxeng	(703) 875-4990
321	USAID	Education	All-sector Service Agencies for Nonformal Training and Education (ASANTE)	Multicountry	1,500,000	James Hoxeng	(703) 875-4990
322	USAID	Education	Advancing Basic Education and Literacy: (ABEL)	Multicountry	3,000,000	James Hoxeng	(703) 875-4990
323	USAID	Education	Improving the Efficiency of Educational Systems (IEES)	Multicountry	2,000,000	Richard Pelczar	(703) 875-4620
324	USAID	Education	Basic Research in Developing Education Systems (BRIDGES)	Multicountry	1,700,000	Richard Pelczar	(703) 875-4620
325	USAID	Education	Institutional Excellence	Pakistan	800,000	J. Morgan	(202) 647-9970
326	USAID	Education	Primary Education Development Program	Pakistan	2,300,000	J. Morgan	(202) 647-9970
327	USAID	Education	Private Sector Management Improvement, Private Sector Needs Component, Writing Case Studies Activities	Peru	0	Veronica Ferraro	*51-14-33-3200
328	USAID	Education	Development Training	Philippines	100,000	J. Nussbaum	(202) 647-9624

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329	USAID	Education	Technology Transfer	Tunisia	3,800,000	D. Masters	(202) 647-9970
330	USAID	Education	Improving Educational Quality	Worldwide	1,600,000	Dr. Clifford Block	(703) 875-4700
331	USAID	Education	Environmental Education and Communication (CREENCOM)	Worldwide	0	Anthony Meyer	(703) 875-4620
332	USAID	Education	Education Development Support	Yemen	200,000	B. Wickland	(202) 647-9979
333	USAID	Energy	Collaborate with US Wind Energy Industry in Pre-investment Analysis and Project Development for Wind Farms in Host Ctry	Costa Rica	30,000	Dr. David Jhirad	(703) 875-4047
334	USAID	Energy	Alexandria Electric	Egypt	1,000	R. Ichord	(202) 647-8274
335	USAID	Energy	Power Sector Support	Egypt	6,200,000	R. Ichord	(202) 647-8274
336	USAID	Energy	Management Information System - Egypt	Egypt	700,000	Alberto J. Sabadell	(703) 875-4056
337	USAID	Energy	Program for Acceleration of Commercial Energy Research	India	200,000	Bob Beckman	91-11-686-5301
338	USAID	Energy	Long-Term Issues in the Indian Power Sector	India	100,000	Dr. David Jhirad	(703) 875-4047
339	USAID	Energy	Develop an End-use Efficiency Technology Menu	India	200,000	Dr. David Jhirad	(703) 875-4047
340	USAID	Energy	Support to USAID/India on Program for the Acceleration and Commercialization of Energy Research (PACER)	India	30,000	Dr. David Jhirad	(703) 875-4047
341	USAID	Energy	Complete Integrated Gasification Combined Cycle (IGCC) Feasibility Study	India	100,000	Dr. David Jhirad	(703) 875-4047
342	USAID	Energy	Integrated Gasification Combined Cycle Feasibility Assessment - India	India	75,000	Alberto J. Sabadell	(703) 875-4056
343	USAID	Energy	Case Study for Implementing Least-Cost Strategies to Reduce Greenhouse Gas Emissions: Efficient Lighting	Indonesia	75,000	Dr. David Jhirad	(703) 875-4047
344	USAID	Energy	PUSPIPTEK Energy Research Laboratory	Indonesia	75,000	Edi Setianto	*62-21-360-360
345	USAID	Energy	Energy Demand Management	Morocco	700,000	R. Ichord	(202) 647-8274
346	USAID	Energy	Support for Reduction in Greenhouse Gas Emissions	Multicountry	200,000	Dr. David Jhirad	(703) 875-4047
347	USAID	Energy	Participate in WHO's Evaluation of Vaccine Cold Chain Effectiveness. Comparing Photovoltaics and Kerosene Systems	Multicountry	30,000	Dr. David Jhirad	(703) 875-4047
348	USAID	Energy	Biomass Energy Systems and Technology Project, Collaborative Research on the Tropics	Multicountry	30,000	James Sullivan	(703) 875-4205
349	USAID	Energy	Biomass Energy Systems and Technology Project, Biomass Gasification Study	Multicountry	500,000	James Sullivan	(703) 875-4205
350	USAID	Energy	Biomass Energy and Technology Project, Collection of Sugar Cane Field Residues	Multicountry	200,000	James Sullivan	(703) 875-4205
351	USAID	Energy	Energy Planning and Development	Pakistan	2,000,000	R. Archer	(202) 647-8274
352	USAID	Energy	Rural Electrification	Pakistan	26,000,000	R. Ichord	(202) 647-8274
353	USAID	Energy	Private Sector Power	Pakistan	1,000,000	R. Ichord	(202) 647-8274
354	USAID	Energy	Rural Electrification	Philippines	700,000	R. Archer	(202) 647-8274
355	USAID	Energy	Global Energy Efficiency Initiative	Worldwide	200,000	Dr. David Jhirad	(703) 875-4047
356	USAID	Energy	Implement Multi-Donor Agency Electric Utility Performance Improvement Initiative	Worldwide	400,000	Dr. David Jhirad	(703) 875-4047
357	USAID	Energy	Support for Renewable Energy Information Dissemination	Worldwide	30,000	Dr. David Jhirad	(703) 875-4047
358	USAID	Energy	Environmental Manual For Power Development: Phase 2	Worldwide	300,000	Dr. David Jhirad	(703) 875-4047
359	USAID	Energy	Energy Training Program	Worldwide	1,800,000	Shirley A. Toth	(703) 875-4057
360	USAID	Environment	Environment Support	Bolivia	23,000	Darell McIntyre	*591-2-350-120
361	USAID	Environment	Brazil Global Climate Change	Brazil	100,000	Chloe O'Gara	(202) 647-3992
362	USAID	Environment	RDO/C Encore Project Paper Design	Caribbean	30,000	Chloe O'Gara	(202) 647-3992
363	USAID	Environment	Forestry Sector Development	Ecuador	618,000	David Alverson	(202) 647-4376

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REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
364	USAID	Environment	Natural Resource Conservation, Ecuador	Ecuador	2,100,000	Mr. Howard Clark	*593-2-521-100
365	USAID	Environment	Forestry Sector Development Project	Ecuador	50,000	Michael Yates	(703) 875-4688
366	USAID	Environment	PD&S: Tropical Forest Action Plan	Guatemala	15,000	Michael Yates	(703) 875-4688
367	USAID	Environment	Environmental Services Development	Jordan	100,000	D. Masters	(202) 647-9970
368	USAID	Environment	SARSA - Kenya	Kenya	30,000	Chloe O'Gara	(202) 647-3992
369	USAID	Environment	Access to Land, Water and Other Natural Resources II Project	Mali	150,000	Gloria D. Steele	(703) 875-4567
370	USAID	Environment	Coastal Resources Management	Multicountry	1,400,000	Nora Berwick	(703) 875-4539
371	USAID	Environment	Forestry/Fuelwood Research and Development	Multicountry	400,000	Ian G. Morison	(703) 875-4076
372	USAID	Environment	Decentralization: Finance and Management	Multicountry	500,000	Theresa Ware	(703) 875-4785
373	USAID	Environment	Biomass Energy Systems and Technology Project, Long-term Agronomic Impacts of Residue Removal	Thailand	30,000	James Sullivan	(703) 875-4205
374	USAID	Environment	SARSA Tunisia - Water	Tunisia	30,000	Chloe O'Gara	(202) 647-3992
375	USAID	Environment	Forest Resources Management	Worldwide	450,000	Carl M. Gallegos	(703) 875-4062
376	USAID	Environment	Environmental and Natural Resources Policy and Training Project (EPAT)	Worldwide	7,850,000	Russell Misheloff	(703) 875-4046
377	USAID	Environment	Conservation of Biological Diversity	Worldwide	1,500,000	Sy Sohmer	(703) 875-4669
378	USAID	Environment	Natural Resources Management Support Project	sub-SAHR Africa	4,000,000	Gary R. Cohen	(202) 647-2957
379	USAID	Health	Health Sector Support	Afghanistan	1,000,000	J. Morgan	(202) 647-9970
380	USAID	Health	Africa Child Survival Initiative-Combatting Childhood Communicable Diseases	Africa	135,000	Dr. Glenn L. Post	(202) 647-8737
381	USAID	Health	Helen Keller Institute Nutrition Survey for Disaster Preparation	Bangladesh	75,000	Sheryl Keller	*880-2-608170
382	USAID	Health	Impression Cytology for Assessment of Vitamin A Status of Children in Belize	Belize	75,000	Floyd O'Quinn	(703) 875-4170
383	USAID	Health	Assessment of Vitamin A Status of Children in Belize	Belize	75,000	Floyd O'Quinn	(703) 875-4170
384	USAID	Health	Predictors of Postnatal Care Utilization in Botswana	Botswana	75,000	Floyd O'Quinn	(703) 875-4170
385	USAID	Health	Host Cell Receptors for Trypanosoma cruzi	Brazil	75,000	Floyd O'Quinn	(703) 875-4170
386	USAID	Health	AIDS Communication and Technical Assistance	Caribbean	300,000	Nickolas G. Studzinski	(202) 647-8605
387	USAID	Health	The Use of Rice-based and Glycine-enriched Oral Rehydration Solutions in an Infant Population in Dominican Republic	Dominican REP	75,000	Floyd O'Quinn	(703) 875-4170
388	USAID	Health	A Study of Soil Metal Absorption and Deposition in Human Inhabitants of the Dominican Republic	Dominican REP	75,000	Floyd O'Quinn	(703) 875-4170
389	USAID	Health	AIDS Prevention	Dominican REP	300,000	Nickolas G. Studzinski	(202) 647-8605
390	USAID	Health	Child Survival	Egypt	1,000,000	T. Johnson	(202) 647-9970
391	USAID	Health	Haitian Medicinal Plants Research: An Ethnobotanical and Ethnopharmacological Study of Haiti's Medicinal Plants	Haiti	75,000	Floyd O'Quinn	(703) 875-4170
392	USAID	Health	Vaccine and Immunodiagnostic Development of the Indo-US Vaccine Action Program	India	1,000,000	Rekha Masilamani	91-11-686-5301
393	USAID	Health	Biomedical Research Support	India	300,000	K. Sudhakar	91-11-686-5301
394	USAID	Health	Family Health Services	Jordan	200,000	D. Masters	(202) 647-9970
395	USAID	Health	Malaria Vaccine Research and Development	Kenya	7,500,000	Kirk Miller MD	(703) 875-4753
396	USAID	Health	West Bank/Gaza Development	Middle East	900,000	K. Loken	(202) 647-9227
397	USAID	Health	Health Care Financing	Morocco	200,000	D. Masters	(202) 647-9970
398	USAID	Health	Technologies for Child Health (HEALTHTECH)	Multicountry	2,000,000	C. Gonzmart	(703) 875-4427
399	USAID	Health	Functional Implications of Malnutrition - CRSP	Multicountry	700,000	Dr. Samuel G. Kahn	(703) 875-4228

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REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
400	USAID	Health	Applied Diarrheal Disease Research	Multicountry	1,000,000	C. Miller PhD	(703) 875-4735
401	USAID	Health	Diarrheal Disease Research and Coordination	Multicountry	2,500,000	C. Miller PhD	(703) 875-4735
402	USAID	Health	Child Survival Action Program - Support	Multicountry	2,400,000	P. Reyes	(703) 875-4427
403	USAID	Health	Health and Nutrition Technical Services Support	Multicountry	75,000	Nickolas G. Studzinski	(202) 647-8605
404	USAID	Health	Use of Mixed Microbial Ecosystems Generated on Silaged Grass to Remove Coliform Bacteria from Sewage Water	Nigeria	75,000	Floyd O'Quinn	(703) 875-4170
405	USAID	Health	PNG Child Survival Project	Oceania	75,000	Kathryn Boyd	*679-311-399
406	USAID	Health	Malaria Control II	Pakistan	300,000	L. Kelly	(202) 647-7585
407	USAID	Health	Child Survival	Pakistan	300,000	L. Kelly	(202) 647-7585
408	USAID	Health	NWFP Area Development	Pakistan	2,800,000	J. Morgan	(202) 647-9970
409	USAID	Health	Development Support Training	Pakistan	4,000,000	J. Morgan	(202) 647-9970
410	USAID	Health	Accelerated Population Planning	Pakistan	1,300,000	J. Morgan	(202) 647-9970
411	USAID	Health	Malaria Vaccine Field Studies	Papua NW Guinea	200,000	Kirk Miller MD	(703) 875-4753
412	USAID	Health	Replication of Trypanosoma Kinetoplast DNA: Role of Minicircle DNA Catenated Dimers	Peru	75,000	Floyd O'Quinn	(703) 875-4170
413	USAID	Health	Technical Resources Project	Philippines	500,000	J. Hussbaum	(202) 647-9624
414	USAID	Health	The Socioeconomic Determinants of Infant Mortality, Fertility, and Contraceptive use in Freetown, Sierra Leone: Survey	Sierra Leone	75,000	Floyd O'Quinn	(703) 875-4170
415	USAID	Health	Maternal and Neonatal Health and Nutrition (Mother Care)	Worldwide	2,000,000	Mary Ann Anderson	(703) 875-4463
416	USAID	Health	Women and Infant's Nutrition: A Family Focus (WIN)	Worldwide	2,500,000	Susan Anthony	(703) 875-4030
417	USAID	Health	Tropical Disease Research	Worldwide	2,500,000	John H. Austin, PhD	(703) 875-4498
418	USAID	Health	Data for Decision Making	Worldwide	750,000	Joseph Beausoleil	(703) 875-4560
419	USAID	Health	Food and Nutrition Monitoring	Worldwide	600,000	Frances R. Davidson	(703) 875-4118
420	USAID	Health	Vitamin A Nutrition	Worldwide	2,000,000	Frances R. Davidson	(703) 875-4118
421	USAID	Health	Oral Rehydration Therapy - Health Education and Long-Term Planning	Worldwide	650,000	Robert Emrey	(703) 875-4463
422	USAID	Health	Health Financing and Sustainability	Worldwide	1,500,000	Robert Emrey	(703) 875-4468
423	USAID	Health	Technology for Primary Health Care II (PRITECH II)	Worldwide	3,000,000	Lloyd Feinberg	(703) 875-4479
424	USAID	Health	Communication for Child Survival (HEALTHCOM II)	Worldwide	1,500,000	Holly Fluty	(703) 875-5508
425	USAID	Health	Technology and Resources for Child Health (REACH II)	Worldwide	2,700,000	Reginald Gibson MD	(202) 875-4564
426	USAID	Health	AIDS Technical Support	Worldwide	18,000,000	Jeffrey Harris, MD	(703) 875-4494
427	USAID	Health	Global Programme on AIDS	Worldwide	21,000,000	Jeffrey Harris, MD	(703) 875-4494
428	USAID	Health	Applied Research Child Survival Services (ARCSS)	Worldwide	1,000,000	James Heiby, MD	(703) 875-4659
429	USAID	Health	Combating Iron Deficiency	Worldwide	400,000	Dr. Samuel G. Kahn	(703) 875-4228
430	USAID	Health	Vaccine Development and Health Research	Worldwide	1,200,000	C. Miller PhD	(703) 875-6436
431	USAID	Health	Giardiasis in the Protein Malnourished Host	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
432	USAID	Health	Direct Destruction of Neural Vascular Endothelium by AIDS Virus Containing Macrophages	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
433	USAID	Health	Immune Effects After Pulmonary Exposure to Benzo(a) Pyrene	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
434	USAID	Health	Trypanosoma cruzi Amastigote Surface Proteins	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
435	USAID	Health	Synthesis and Evaluation of New Anti-schistosomal Agents: Polyamine-PRPP Complexes	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
436	USAID	Health	Purification of the Glycerophosphate Oxidase(GPO) and Molecular Cloning of the GPO Gene	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170

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REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
437	USAID	Health	Molecular Cloning of Promastigote Stage Specific cDNA Sequences of Leishmania Major LRC-L119 and Amastigote Stage	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
438	USAID	Health	Schistosoma Mansoni: A Neurochemical Study of the Nervous System of Cercariae during Development into Adult Worms	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
439	USAID	Health	Characterization of Histone H Gene from Trypanosoma Brucei	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
440	USAID	Health	Biomolecules for Calcium Utilization in Promastigote and Amastigote Stages of Two Leishmania Species	Worldwide	75,000	Floyd O'Quinn	(703) 875-4170
441	USAID	Health	Population Planning	Yemen	300,000	B. Wickland	(202) 647-9979
442	USAID	Health	HIV/AIDS and STD (Sexually Transmitted Diseases) Surveillance Data Base.	sub-SAHR Africa	75,000	William H. Lyerly, Jr.	(202) 647-6543
443	USAID	Population	Family Planning Services Expansion	Dominican REP	5,000	Nickolas G. Studzinski	(202) 647-8605
444	USAID	Population	Conference on ANE Women in Demographic Transition	East Asia	100,000	Chloe O'Gara	(202) 647-3992
445	USAID	Population	Population Project/Family Planning II	Egypt	3,200,000	T. Johnson	(202) 647-9970
446	USAID	Population	Private Sector Family Planning	Haiti	100,000	Nickolas G. Studzinski	(202) 647-8605
447	USAID	Population	Family Planning - Communications and Marketing	India	200,000	Ray Kirkland	21-11-686-5301
448	USAID	Population	Contraceptive Development and Research in Immunology	India	300,000	Rekha Masilamani	91-11-686-5301
449	USAID	Population	Demographic and Health Surveys	Multicountry	4,800,000	Richard Cornelius	(703) 875-4633
450	USAID	Population	Demographic and Health Surveys	Worldwide	5,100,000	Richard Cornelius	(703) 875-4734
451	USAID	Population	Contraceptive Research, Development, Evaluation and Introduction	Worldwide	16,500,000	James D. Shelton	(703) 875-4702
453	USAID	Population	Strategies for Improving Service Delivery	Worldwide	9,800,000	Ann Way	(703) 875-4702
455	USAID	Population	Population Dynamics of Sub-Saharan Africa	sub-SAHR Africa	100,000	John C. Chao	(202) 647-8811
456	USAID	Social Sciences	Systems Approach to Regional Income and Sustainable Resource Assistance (SARSA II)	Bolivia	100,000	Larry Paulson	(703) 875-4433
457	USAID	Social Sciences	National Rural Household Survey	Bolivia	50,000	Johnathon Sleeper	*591-2-350-120
458	USAID	Social Sciences	Access to Land, Water and Other Natural Resources II Project	Guatemala	122,000	Gloria D. Steele	(703) 875-4567
459	USAID	Social Sciences	Implementing Policy Change	Haiti	75,000	Jeanne North	(703) 875-4587
460	USAID	Social Sciences	Systems Approach to Regional Income and Sustainable Resource Assistance (SARSA II)	India	200,000	Larry Paulson	(703) 875-4433
461	USAID	Social Sciences	Systems Approach to Regional Income and Sustainable Resource Assistance (SSRSA II)	Kenya	60,000	Larry Paulson	(703) 875-4433
462	USAID	Social Sciences	Systems Approach to Regional Income and Sustainable Resource Assistance (SARSA II)	Senegal	400,000	Larry Paulson	(703) 875-4433
463	USAID	Social Sciences	Development Studies	Tunisia	200,000	D. Masters	(202) 647-9970
464	USAID	Social Sciences	Systems Approach to Regional Income and Sustainable Resource Assistance (SARSA II)	Tunisia	60,000	Larry Paulson	(703) 875-4433
465	USAID	Social Sciences	Agricultural Marketing Improvement Strategies Project (AMIS)	Worldwide	1,500,000	Thomas Mehen	(703) 875-4440
466	USAID	Social Sciences	Systems Approach to Regional Income and Sustainable Resource Assistance (SARSA II)	Worldwide	100,000	Larry Paulson	(703) 875-4433
467	USAID	Techno/Industry	Lime Processing Technology	Costa Rica	140,000	Andrea Baumann	(703) 875-4564
468	USAID	Techno/Industry	Science and Technology for Development	Egypt	2,700,000	R. Ichord	(202) 647-8274
469	USAID	Techno/Industry	Program for the Advancement of Commercial Technology	India	1,600,000	Bob Beckman	91-11-686-5301
470	USAID	Techno/Industry	Industrial Development	Jordan	300,000	D. Masters	(202) 647-9970
471	USAID	Techno/Industry	Technical Services and Feasibility Studies V	Jordan	500,000	D. Masters	(202) 647-9970

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REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
472	USAID	Techno/Industry	Enterprise in Community Development	Philippines	200,000	J. Nussbaum	(202) 647-9624
473	USAID	Techno/Industry	Science and Technology for Development	Thailand	1,200,000	Peter Deinken	*66-2-255-3650
474	USDA	Agriculture	Sustainable Agronomic Techniques and Erosion Control	Argentina	5,000	Jerry Hammond	
475	USDA	Agriculture	Asia/Pacific Agroforestry Information Service	Asia	176,000	David A. Harcharik	(202) 453-9589
476	USDA	Agriculture	Wildfire Assessment	Brazil	20,000	David A. Harcharik	(202) 453-9589
477	USDA	Agriculture	Fire Danger Rating System	Brazil	14,000	David A. Harcharik	(202) 453-9589
478	USDA	Agriculture	Prescribed Fire Pilot Project	Brazil	10,000	David A. Harcharik	(202) 453-9589
479	USDA	Agriculture	Pentatomid Soybean Pests in Brazil and the U.S.: Investigation of Pheromones as an Aid to Intergrated Pest Management	Brazil	5,000	V. Mezainis	(202) 245-5872
480	USDA	Agriculture	Resistance of Tropical Fruits to Tephritid Fruit Flies through use of Plant Growth Regulators	Brazil	5,000	V. Mezainis	(202) 245-5872
481	USDA	Agriculture	Biosystematic Study of Fruit Flies of the Genus "Toxotrypana" ("Diptera tephritidae")	Brazil	5,000	V. Mezainis	(202) 245-5872
482	USDA	Agriculture	Regulation of Somatic Embryo Induction, Expression and Development in "Vitis" Species	Brazil	5,000	V. Mezainis	(202) 245-5872
483	USDA	Agriculture	Papaya Improvement using In-vitro Techniques	Brazil	5,000	V. Mezainis	(202) 245-5872
484	USDA	Agriculture	Somatic Embryogenesis & Synthetic Seed Production for Plant Propogation	Brazil	5,000	V. Mezainis	(202) 245-5872
485	USDA	Agriculture	Isolation, Characterization and Selection of Stress Resistant Entomopathogenic Fungal Strains	Brazil	5,000	V. Mezainis	(202) 245-5872
486	USDA	Agriculture	Biological Control of Introduced Weed Pests in Brazil and Hawaii	Brazil	5,000	V. Mezainis	(202) 245-5872
487	USDA	Agriculture	International Exchange of Management Approaches to Pest Ants	Brazil	5,000	V. Mezainis	(202) 245-5872
488	USDA	Agriculture	Grassland Germplasm	China	30,000	Jerry Hammond	
489	USDA	Agriculture	Exploration for Biological Control Agents in the Peoples Republic of China	China	75,000	David R. Kincaid	
490	USDA	Agriculture	Di-Haploid Soybean Plant Induction via Anther and Inflorescence Culture	China	30,000	V. Mezainis	(202) 245-5872
491	USDA	Agriculture	Establishing a Cashmere Industry through Research and Introduction of Germplasm	China	30,000	V. Mezainis	(202) 245-5872
492	USDA	Agriculture	Epidemiology of Bluetongue Virus in Central America and the Caribbean	Costa Rica	100,000	V. Mezainis	(202) 245-5872
493	USDA	Agriculture	Field Studies on Sodic Soil Reclamation to Determine the most Effective Placement of Amendments: Soil Location and Time	Egypt	30,000	V. Mezainis	(202) 245-5872
494	USDA	Agriculture	Publication of forest Insects of Ghana	Ghana	2,000	David A. Harcharik	(202) 453-9589
495	USDA	Agriculture	Wood Utilization and Market Component of RENARM	Guatemala	22,500	David A. Harcharik	(202) 453-9589
496	USDA	Agriculture	Germplasm Enhancement for Drought Tolerance and Reclamation of Wastelands: Rabi Sorghum Improvement (Solapur Center)	India	0	V. Mezainis	(202) 245-5872
497	USDA	Agriculture	Germplasm Enhancement for Drought Tolerance Reclamation of Wastelands and Yield Stability (Bijapur Center)	India	0	V. Mezainis	(202) 245-5872
498	USDA	Agriculture	Hormonal Control of Reproductive Biology of Prawns of Commercial Importance	India	30,000	V. Mezainis	(202) 245-5872
499	USDA	Agriculture	Respiratory Mycoplasmosis of Domestic Animals	India	30,000	V. Mezainis	(202) 245-5872

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REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
500	USDA	Agriculture	Development and use of Indigenous Microbial Pathogens for the Control of "Heliothis..." in Different Cropping Systems...	India	0	V. Mezainis	(202) 245-5872
501	USDA	Agriculture	Biodegradation of Commonly Used Pesticides in Tropical Rice Ecosystems	India	0	V. Mezainis	(202) 245-5872
502	USDA	Agriculture	Studies on Meadow Orchard System in Peach Production	India	0	V. Mezainis	(202) 245-5872
503	USDA	Agriculture	Systematics of Elateridae ("Coleoptera insecta")	India	5,000	V. Mezainis	(202) 245-5872
504	USDA	Agriculture	Studies on Production, Physicochemical, Biochemical, Rheological Characteristics, and Uses... Industrially Potential Gums	India	0	V. Mezainis	(202) 245-5872
505	USDA	Agriculture	Survey for Natural Enemies of Economically Important Leafhopper Pests of Cultivated Plants in India	India	0	V. Mezainis	(202) 245-5872
506	USDA	Agriculture	Studies on Avian Adenoviruses with Special Reference to Epidemiology, Pathology, and Immunology	India	0	V. Mezainis	(202) 245-5872
507	USDA	Agriculture	All-India Coordinated Research Program on Weed Control (Center - Birsa Agricultural University)	India	30,000	V. Mezainis	(202) 245-5872
508	USDA	Agriculture	Germplasm Enhancement for Drought Tolerance and Reclamation of Wastelands: Yield Stabilization under Drought Conditions	India	0	V. Mezainis	(202) 245-5872
509	USDA	Agriculture	Photosynthesis and Crop Productivity under Tropical Environment: ...Bioproductivity in Ragi and Groundnut	India	0	V. Mezainis	(202) 245-5872
510	USDA	Agriculture	Germplasm Enhancement for Drought Tolerance and Reclamation of Wastelands: ...Drought Tolerance and Yield (Hyderabad C.)	India	0	V. Mezainis	(202) 245-5872
511	USDA	Agriculture	Effect of Additives on Fastness Characteristics and Formaldehyde Release of Dyed Durable Press Finished Cotton Fabrics	India	0	V. Mezainis	(202) 245-5872
512	USDA	Agriculture	Development of Yarn and Fabric Structures for Better Apparel Comfort ...using Cotton and Cotton/Man-made Fiber Blends	India	30,000	V. Mezainis	(202) 245-5872
513	USDA	Agriculture	General Survey, Systematics, and the Biology of Freshwater Prawns of Bhopal and Hoshangabad Districts with ...	India	0	V. Mezainis	(202) 245-5872
514	USDA	Agriculture	Biosystematics and Bionomic of Acridoid Grasshoppers	India	0	V. Mezainis	(202) 245-5872
515	USDA	Agriculture	Long-term Outcomes of Nutritional Intervention with Low Cost Locally Available Foods on Children from Birth to 12 Years	India	0	V. Mezainis	(202) 245-5872
516	USDA	Agriculture	Predicting Impact of Parasitoids on "Heliothis Armigera"	India	0	V. Mezainis	(202) 245-5872
517	USDA	Agriculture	Germplasm Enhancement for Drought Tolerance and Reclamation of Mined Wastelands (Jodhpur Center)	India	0	V. Mezainis	(202) 245-5872
518	USDA	Agriculture	Freezing of Goat Semen	India	30,000	V. Mezainis	(202) 245-5872
519	USDA	Agriculture	Standardization on Tissue/apical Meristem Culture Techniques in Horticultural Crops of Kerala	India	0	V. Mezainis	(202) 245-5872
520	USDA	Agriculture	Germplasm Enhancement for Drought Tolerance and Reclamation of Wastelands (Coordinating Unit)	India	0	V. Mezainis	(202) 245-5872
521	USDA	Agriculture	Germplasm Enhancement for Drought Tolerance and Reclamation of Wastelands: Genotypic Variability and Grain Yield	India	0	V. Mezainis	(202) 245-5872
522	USDA	Agriculture	Inhibitors of Insect Growth and Reproduction Derived from Natural Products	India	0	V. Mezainis	(202) 245-5872

Science & Technology Projects listed by Agency -- Agencies other than NSF

REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
523	USDA	Agriculture	Comparative Sterol Utilization, Ecdysteroid Biosynthesis and Metabolism in Insects	India	0	V. Mezainis	(202) 245-5872
524	USDA	Agriculture	Comparative Evaluation of Selection of Broilers on the Basis of Growth Rate Versus Feed Efficiency	India	0	V. Mezainis	(202) 245-5872
525	USDA	Agriculture	Gene Manipulation in Rice through Plant Tissue and Cell Culture	India	0	V. Mezainis	(202) 245-5872
526	USDA	Agriculture	Effect of Agrochemicals on Soil Microflora	India	0	V. Mezainis	(202) 245-5872
527	USDA	Agriculture	Enhancing Fertilizer Use Efficiency in conjunction with Residue Management in Dryland Crops and Cropping Systems	India	0	V. Mezainis	(202) 245-5872
528	USDA	Agriculture	Enhancing Fertilizer Use Efficiency in conjunction with Residue Management in Dryland Crops: Low Rainfall Arid Regions	India	0	V. Mezainis	(202) 245-5872
529	USDA	Agriculture	Integrated Project for Soil Conservation and Watershed Management (Bangalore Center)	India	0	V. Mezainis	(202) 245-5872
530	USDA	Agriculture	Enhancing Fertilizer Use Efficiency in conjunction with Residue Management in Dryland Crops and Cropping Systems	India	0	V. Mezainis	(202) 245-5872
531	USDA	Agriculture	Integrated Project for Soil Conservation and Watershed Management for Alluvial Soils and Ravine Region (Agra Center)	India	0	V. Mezainis	(202) 245-5872
532	USDA	Agriculture	Dev. of Models to Simulate Field Water Balance and Water Use-Crop Yield: Maize-wheat System (Ludhiana Center)	India	0	V. Mezainis	(202) 245-5872
533	USDA	Agriculture	Integrated Project for Soil Conservation and Watershed Management (Coordinating Unit)	India	0	V. Mezainis	(202) 245-5872
534	USDA	Agriculture	Development of Models to Simulate Field Water Balance and Water Use-Crop Yield: (Jodhpur Center)	India	0	V. Mezainis	(202) 245-5872
535	USDA	Agriculture	Development of Models to Simulate Field Water Balance, Water Use-Crop Yields: (Coordinating Unit)	India	0	V. Mezainis	(202) 245-5872
536	USDA	Agriculture	Integrated Project for Soil Conservation and Watershed Management	India	0	V. Mezainis	(202) 245-5872
537	USDA	Agriculture	Enhancing Fertilizer Use Efficiency in conjunction with Residue Management in Dryland Crops: Soil-Water-Nitrogen	India	0	V. Mezainis	(202) 245-5872
538	USDA	Agriculture	Cataloguing and Prebreeding of Wheat Genetic Resources	India	0	V. Mezainis	(202) 245-5872
539	USDA	Agriculture	Research on Mechanization of Dryland Agriculture (Raichur Center)	India	0	V. Mezainis	(202) 245-5872
540	USDA	Agriculture	Research on Mechanization of Dryland Agriculture (Bangalore Center)	India	0	V. Mezainis	(202) 245-5872
541	USDA	Agriculture	Research Mechanization of Dryland Agriculture (Coordinating Unit)	India	0	V. Mezainis	(202) 245-5872
542	USDA	Agriculture	Development of Models to Simulate Field Water Balance and Water Use-Crop Yield: (Hyderabad Center)	India	0	V. Mezainis	(202) 245-5872
543	USDA	Agriculture	Integrated Project for Soil Conservation and Watershed Management (Bellary Center)	India	0	V. Mezainis	(202) 245-5872
544	USDA	Agriculture	Integrated Project for Soil Conservation and Watershed Management (Indore Center)	India	0	V. Mezainis	(202) 245-5872

Science & Technology Projects listed by Agency -- Agencies other than NSF

REF#	Agency	Sector	Title of Activity	Country	Funding	Agency Contact Person	Telephone No.
545	USDA	Agriculture	Mexico Forest Inventory	Mexico	58,000	David A. Harcharik	(202) 453-9589
546	USDA	Agriculture	Mexico/U.S. Commission for the Prevention of FMD and other Exotic Animal Diseases	Mexico	600,000	Alex B. Thiermann	(202) 447-7593
547	USDA	Agriculture	Improved Utilization of Soil Resource Information	Mongolia	30,000	Jerry Hammond	
548	USDA	Agriculture	Plant Materials for Protection and Improvement of Grazing Lands	Mongolia	5,000	Jerry Hammond	
549	USDA	Agriculture	Commission for the Prevention of FMD-Panama, ICA/USDA Cooperative FMD Eradication	Multicountry	2,300,000	Alex B. Thiermann	(202) 447-7593
550	USDA	Agriculture	Mexico/U.S. Commission for the Eradication of Screwworm	Multicountry	37,700,000	Alex B. Thiermann	(202) 447-7593
551	USDA	Agriculture	Medfly/MOSCAMED-(Mediterranean Fruit Fly Program in Guatemala, Belize, and Mexico	Multicountry	5,300,000	Alex B. Thiermann	(202) 447-7593
552	USDA	Agriculture	Silvicultural Guidelines for Community Forestry	Papua NW Guinea	18,000	David A. Harcharik	(202) 453-9589
553	USDA	Agriculture	Storage of Virus and Antisera Collection	Peru	5,000	Paul W. Tooley	(301) 663-7344
554	USDA	Agriculture	Handbook on Tree Species of Economic Importance	Worldwide	17,000	David A. Harcharik	(202) 453-9589
555	USDA	Agriculture	Compare Controlled Time Frequency Grazing Systems	Zimbabwe	30,000	Jerry Hammond	

# **APPENDIX B**



Science & Technology Activities listed by Country -- Agencies other than NSF<sup>1</sup>

REF#	Country	Sector	Agency	Title of Activity	Funding
192	Afghanistan	Agriculture	USAID	Agricultural Sector Support	1,200,000
379	Afghanistan	Health	USAID	Health Sector Support	1,000,000
193	Africa	Agriculture	USAID	Improving Cassava for African Farmers Through Biotechnology	83,850
194	Africa	Agriculture	USAID	Development and Testing of African Microbial Pesticides for the Control of Locust and Grasshoppers	300,000
195	Africa	Agriculture	USAID	International Fertilizer Development Center (Muscle Shoals, Alabama).	3,500,000
196	Africa	Agriculture	USAID	Strengthening African Agricultural Research Systems in 20 Sub-Saharan Agrican Countries	4,900,000
197	Africa	Agriculture	USAID	Africa Development Bank WID Strategy Assistance	75,000
198	Africa	Agriculture	USAID	Systematics of Bagoini (Aquatic Weevils) to Enhance Biological Control of Aquatic Weeds	75,000
199	Africa	Agriculture	USAID	Famine Early Warning System Project	400,000
243	Africa	Agriculture	USAID	Improved Animal Vaccines through Biotechnology: Phase I, Rinderpest	85,000
321	Africa	Education	USAID	All-sector Service Agencies for Nonformal Training and Education (ASANTE)	750,000
372	Africa	Environment	USAID	Decentralization: Finance and Management	71,429
380	Africa	Health	USAID	Africa Child Survival Initiative-Combatting Childhood Communicable Diseases	135,000
474	Argentina	Agriculture	USDA	Sustainable Agronomic Techniques and Erosion Control	5,000
183	Argentina	Energy	NRC	NRC Memorandum of Understanding with Argentina on Nuclear Safety Information Exchange on Civil Power & Research Reactors	0
105	Argentina	Environment	DOI	Graduate Program in Wildlife Management	100,000
142	Argentina	SCI Policy/Umbr	DOS	Agreement for Scientific and Technical Cooperation between U.S.A. and the Government of the Argentine Republic	0
182	Argentina	Space Sciences	NASA	NASA/SECYT SAC-B Astrophysics Engineering Demonstration Mission	275,000
475	Asia	Agriculture	USDA	Asia/Pacific Agroforestry Information Service	176,000
372 *	Bangladesh	Environment	USAID	Decentralization: Finance and Management	71,429
381	Bangladesh	Health	USAID	Helen Keller Institute Nutrition Survey for Disaster Preparation	75,000
401 *	Bangladesh	Health	USAID	Diarrheal Disease Research and Coordination	1,250,000
200	Barbados	Agriculture	USAID	Pre/Post Weaning Performance, Carcass Characteristics and Sexual Maturity of Barbados Black-belly Sheep	75,000
201	Barbados	Agriculture	USAID	Controlling Storage Root Development in Sweet Potato	75,000
22 *	Barbados	Health	DHHS	International Cooperation on Prevention of Blindness Program	375,000
202	Belize	Agriculture	USAID	Use of Green Manures to Improve Soil Fertility in Corn Production in Belize	75,000
203	Belize	Agriculture	USAID	Pool Size and Turnover Time of Stable Soil Organic Matter in Tropical Croplands by C-13 and C-14 Methods	75,000
550 *	Belize	Agriculture	USDA	Mexico/U.S. Commission for the Eradication of Screwworm	9,425,000
551 *	Belize	Agriculture	USDA	Medfly/MOSCAMED-(Mediterranean Fruit Fly Program in Guatemala, Belize, and Mexico	1,766,667
318 *	Belize	Education	USAID	Educational Technology: Studies and Applications	550,000
382	Belize	Health	USAID	Impression Cytology for Assessment of Vitamin A Status of Children in Belize	75,000
383	Belize	Health	USAID	Assessment of Vitamin A Status of Children in Belize	75,000
204	Bolivia	Agriculture	USAID	Funds for Bolivia Research Group	121,000
205	Bolivia	Agriculture	USAID	Bolivia Rural Survey	30,000
206	Bolivia	Agriculture	USAID	Bolivia - Cochabamba Regional Development Project	30,000
249 *	Bolivia	Agriculture	USAID	Small Ruminant Collaborative Research Support Program	466,667
76	Bolivia	Earth SCI/Terre	DOI	Mineral Resource Assessment of the Altiplano	0
95 *	Bolivia	Earth SCI/Terre	DOI	Training in Volcanic-hosted Precious-metal Deposits in South America	100,000
319 *	Bolivia	Education	USAID	Learning Technologies for Basic Education	325,000
360	Bolivia	Environment	USAID	Environment Support	23,000
456	Bolivia	Social Sciences	USAID	Systems Approach to Regional Income and Sustainable Resource Assistance (SARSA II)	100,000
457	Bolivia	Social Sciences	USAID	National Rural Household Survey	50,000

<sup>1</sup>An asterisk denotes activities in more than one country.

Science & Technology Activities listed by Country -- Agencies other than NSF

REF#	Country	Sector	Agency	Title of Activity	Funding
322 *	Botswana	Education	USAID	Advancing Basic Education and Literacy: (ABEL)	375,000
323 *	Botswana	Education	USAID	Improving the Efficiency of Educational Systems (IEES)	400,000
172 *	Botswana	Environment	EPA	USA/Southern Africa INFOTERRA Regional Companionship PGM	12,500
17 *	Botswana	Health	DHHS	International Cooperation on Aging	300,000
384	Botswana	Health	USAID	Predictors of Postnatal Care Utilization in Botswana	75,000
249 *	Brazil	Agriculture	USAID	Small Ruminant Collaborative Research Support Program	466,667
476	Brazil	Agriculture	USDA	Wildfire Assessment	20,000
477	Brazil	Agriculture	USDA	Fire Danger Rating System	14,000
478	Brazil	Agriculture	USDA	Prescribed Fire Pilot Project	10,000
479	Brazil	Agriculture	USDA	Pentatomid Soybean Pests in Brazil and the U.S.: Investigation of Pheromones as an Aid to Intergrated Pest Management	5,000
480	Brazil	Agriculture	USDA	Resistance of Tropical Fruits to Tephritid Fruit Flies through use of Plant Growth Regulators	5,000
481	Brazil	Agriculture	USDA	Biosystematic Study of Fruit Flies of the Genus "Toxotrypana" ("Diptera tephritidae")	5,000
482	Brazil	Agriculture	USDA	Regulation of Somatic Embryo Induction, Expression and Development in "Vitis" Species	5,000
483	Brazil	Agriculture	USDA	Papaya Improvement using In-vitro Techniques	5,000
484	Brazil	Agriculture	USDA	Somatic Embryogenesis & Synthetic Seed Production for Plant Propogation	5,000
485	Brazil	Agriculture	USDA	Isolation, Characterization and Selection of Stress Resistant Entomopathogenic Fungal Strains	5,000
486	Brazil	Agriculture	USDA	Biological Control of Introduced Weed Pests in Brazil and Hawaii	5,000
487	Brazil	Agriculture	USDA	International Exchange of Management Approaches to Pest Ants	5,000
174	Brazil	Earth SCI/Atmos	NASA	NASA/Comissao Brasileira de Atividades Espaciais (COBAE) Cooperative Global Tropospheric Experiment	3,000,000
77	Brazil	Earth SCI/Terre	DOI	Fluid Inclusion Study of Paleotemperatures and Oil Generation in the Parana Basin, Brazil	5,000
94 *	Brazil	Earth SCI/Terre	DOI	Understanding Earthquakes and Mitigating their Effects Training Course	2,727
63	Brazil	Energy	DOE	Coal Gasification Technology Development Project at Triunfo in Rio Grande do Sul	0
184	Brazil	Energy	NRC	NRC Arrangement with Brazil on Nuclear Safety Technical Information Exchange and Cooperation	0
346 *	Brazil	Energy	USAID	Support for Reduction in Greenhouse Gas Emissions	100,000
349 *	Brazil	Energy	USAID	Biomass Energy Systems and Technology Project, Biomass Gasification Study	166,667
106	Brazil	Environment	DOI	Graduate Program in Ecology, Conservation and Wildlife Management	100,000
361	Brazil	Environment	USAID	Brazil Global Climate Change	100,000
13 *	Brazil	Health	DHHS	International Cooperation on Heart, Lung, & Blood Research	1,000,000
22 *	Brazil	Health	DHHS	International Cooperation on Prevention of Blindness Program	375,000
24 *	Brazil	Health	DHHS	International Collaboration in Infectious Disease Research Awards	625,000
25 *	Brazil	Health	DHHS	International Collaboration in AIDS Research	500,000
26 *	Brazil	Health	DHHS	International Cooperation on Allergy and Infectious Diseases	1,437,500
385	Brazil	Health	USAID	Host Cell Receptors for Trypanosoma cruzi	75,000
143	Brazil	SCI Policy/Umbre	DOS	Agreement between the U.S.A. and the Federative Republic of Brazil Relating to Cooperation in Science and Technology	0
54	Brazil	Techno/Industry	DOC	US Brazil Basic Sciences Initiative	150,000
153	Brazil	Techno/Industry	DOT	Memorandum of Understanding - Cooperation & Transportation	0
207	Burkina Faso	Agriculture	USAID	Optimizing the Utilization of Crop Residues by Ruminant Livestock	75,000
140 *	Burkina Faso	Other Life SCI	DOI	Famine Early Warning Systems	71,429
324 *	Burundi	Education	USAID	Basic Research in Developing Education Systems (BRIDGES)	212,500
10 *	Burundi	Health	DHHS	Africa Child Survival Initiative: Combatting Childhood Communicable Diseases	700,000
10 *	CEN African REP	Health	DHHS	Africa Child Survival Initiative: Combatting Childhood Communicable Diseases	700,000
208	Cameroon	Agriculture	USAID	Hammer Mills	49,000
209	Cameroon	Agriculture	USAID	CATMI Maize Mills	140,000
210	Cameroon	Agriculture	USAID	Maize Planter	30,000
241 *	Cameroon	Agriculture	USAID	Mini-Dehullers	33,000

Science & Technology Activities listed by Country -- Agencies other than NSF

REF#	Country	Sector	Agency	Title of Activity	Funding
242 *	Cameroon	Agriculture	USAID	Treadle Pumps	13,000
310	Cameroon	Education	USAID	CARE Cameroon	100,000
372 *	Cameroon	Environment	USAID	Decentralization: Finance and Management	71,429
12 *	Cameroon	Health	DHHS	International Cooperation on Research Resources	128,571
449 *	Cameroon	Population	USAID	Demographic and Health Surveys	533,333
211	Cape Verde	Agriculture	USAID	Biological Control of Grasshoppers and other Pests in Cape Verde	200,000
107	Caribbean	Environment	DOI	Research and Monitoring of Coral Resources in Protected Areas	5,000
362	Caribbean	Environment	USAID	RDO/C Encore Project Paper Design	30,000
12	Caribbean	Health	DHHS	International Cooperation on Research Resources	128,571
14	Caribbean	Health	DHHS	Health Science Communications	42,858
386	Caribbean	Health	USAID	AIDS Communication and Technical Assistance	300,000
403	Caribbean	Health	USAID	Health and Nutrition Technical Services Support	37,500
48	Caribbean	Social Sciences	DOC	Institute for Hemispheric Studies	250,000
212	Central America	Agriculture	USAID	Tree Crop Production	1,700,000
213	Chad	Agriculture	USAID	Chad Rodent Population Management	100,000
140 *	Chad	Other Life SCI	DOI	Famine Early Warning Systems	71,429
95 *	Chile	Earth SCI/Terre	DOI	Training in Volcanic-hosted Precious-metal Deposits in South America	100,000
175	Chile	Earth SCI/Terre	NASA	NASA/University of Chile (Geographic Information System (GIS) Project)	30,000
176	Chile	Earth SCI/Terre	NASA	NASA/Universidad de Chile (Crustal Dynamics Research Program)	300,000
64	Chile	Energy	DOE	Clean Coal Technology Cooperation	0
6 *	Chile	Health	DHHS	Food, Drug and Biologicals Technical Cooperations Missions	45,455
488	China	Agriculture	USDA	Grassland Germplasm	30,000
489	China	Agriculture	USDA	Exploration for Biological Control Agents in the Peoples Republic of China	75,000
490	China	Agriculture	USDA	Di-Haploid Soybean Plant Induction via Anther and Inflorescence Culture	30,000
491	China	Agriculture	USDA	Establishing a Cashmere Industry through Research and Introduction of Germplasm	30,000
40	China	Earth SCI/Ocean	DOC	US/PRC Protocol on Cooperation in Marine and Fishery Science and Technology	30,000
78	China	Earth SCI/Terre	DOI	China Digital Seismograph Network	25,000
79	China	Earth SCI/Terre	DOI	Genetic and Descriptive Model of Bayan Obo Iron-Niobium-Rare Earth Deposits, Inner Mongolia	5,000
80	China	Earth SCI/Terre	DOI	Petroleum Geochemistry Research	5,000
81	China	Earth SCI/Terre	DOI	Strategic and Critical Minerals Program: Platinum Group Element Research	30,000
82	China	Earth SCI/Terre	DOI	United States - PRC Surface-water Hydrology Protocol	50,000
83	China	Earth SCI/Terre	DOI	Geochemical Anomalies	5,000
65	China	Energy	DOE	Cooperation in High Energy Physics, Nuclear Physics, and Magnetic Fusion	0
66	China	Energy	DOE	Cooperation in Fossil Energy Technology (157), Coal Preparation and Waste Stream Utilization (225), & Information Exchg.	0
67	China	Energy	DOE	Exploration of the Relationship between Climate Change and Atmospheric Levels of CO2	0
185	China	Energy	NRC	NRC Protocol with China covering Technical Information Exchange and Cooperation (NNSA) Nat'l Nuclear Safety Admin.	0
108	China	Environment	DOI	US - PRC Nature Conservation Protocol	75,000
109	China	Environment	DOI	Chinese Planning and Land Records Project	30,000
159	China	Environment	EPA	Indoor Air Pollution/Lung Cancer in Xuan Wei County and Air Pollution Effects on the Growth of Children's Lung Functions	0
160	China	Environment	EPA	Joint Project to Evaluate CFC Substitutes for Household Refrigerators	222,000
161	China	Environment	EPA	Agreement on Cooperative Principles in the Area of Coalbed Methane Recovery and Use	200,000
162	China	Environment	EPA	Pollutant Transformation, Fate & Transport Processes and Modeling	0
163	China	Environment	EPA	Modeling of Air Pollution Transport and Transformation	0
164	China	Environment	EPA	Environmental Health Research	500,000
165	China	Environment	EPA	Environmental Processes and Effects Research	500,000

Science & Technology Activities listed by Country -- Agencies other than NSF

REF#	Country	Sector	Agency	Title of Activity	Funding
1	China	Health	DHHS	U.S.-China Cooperation in Health and Medical Sciences	500,000
7 *	China	Health	DHHS	International Dental Research	400,000
8 *	China	Health	DHHS	International Cooperation on Neurological Disorders and Stroke	3,600,000
9 *	China	Health	DHHS	International Cooperation on Environmental Health Sciences	1,000,000
13 *	China	Health	DHHS	International Cooperation on Heart, Lung, & Blood Research	1,000,000
14 *	China	Health	DHHS	Health Science Communications	42,857
16 *	China	Health	DHHS	International Cooperation on Metal Health	250,000
17 *	China	Health	DHHS	International Cooperation on Aging	300,000
20 *	China	Health	DHHS	International Cooperation on Child Health and Human Development	454,515
22 *	China	Health	DHHS	International Cooperation on Prevention of Blindness Program	375,000
23 *	China	Health	DHHS	International Cooperation in Cancer Research	5,000,000
144	China	SCI Policy/Umbr	DOS	Agreement between the U.S. and the People's Republic of China for Scientific and Technological Cooperation	0
173	China	Social Sciences	HUD	Protocol on Building Construction and Urban Planning of the US-China S&T Agreement	30,000
55	China	Techno/Industry	DOC	Exchange of Information and Researchers	5,000
154	China	Techno/Industry	DOT	Memorandum of Understanding - Cooperation and Transportation	0
155	China	Techno/Industry	DOT	MOU concerning the Development of Technical Cooperation in Civil Aviation	0
156	China	Techno/Industry	DOT	MOU on Cooperation in Railway Science and Technology	0
157	China	Techno/Industry	DOT	Memorandum of Understanding - Cooperation & Transportation	0
549 *	Colombia	Agriculture	USDA	Commission for the Prevention of FMD-Panama, ICA/USDA Cooperative FMD Eradication	1,150,000
7 *	Colombia	Health	DHHS	International Dental Research	400,000
14 *	Colombia	Health	DHHS	Health Science Communications	42,858
247 *	Costa Rica	Agriculture	USAID	Fisheries Stock Assessment Collaborative Research Support Program (University of Maryland)	233,333
492	Costa Rica	Agriculture	USDA	Epidemiology of Bluetongue Virus in Central America and the Caribbean	100,000
94 *	Costa Rica	Earth SCI/Terre	DOI	Understanding Earthquakes and Mitigating their Effects Training Course	2,727
319 *	Costa Rica	Education	USAID	Learning Technologies for Basic Education	325,000
320 *	Costa Rica	Education	USAID	Clearinghouse on Development Communication	100,000
68	Costa Rica	Energy	DOE	Clean Coal Technology Cooperation	0
333	Costa Rica	Energy	USAID	Collaborate with US Wind Energy Industry in Pre-investment Analysis and Project Development for Wind Farms in Host Ctry	30,000
350 *	Costa Rica	Energy	USAID	Biomass Energy and Technology Project, Collection of Sugar Cane Field Residues	50,000
110	Costa Rica	Environment	DOI	Center for Biological Documentation (BioDoc)	30,000
111	Costa Rica	Environment	DOI	Graduate Program in Wildlife Management	200,000
136 *	Costa Rica	Environment	DOI	Research and Monitoring of Ecology and Habitat of Migratory Birds	10,000
467	Costa Rica	Techno/Industry	USAID	Lime Processing Technology	140,000
214	Dominican REP	Agriculture	USAID	Poultry Improvement Project	34,000
215	Dominican REP	Agriculture	USAID	Agricultural Sector Training	600,000
216	Dominican REP	Agriculture	USAID	Role of Silage Microbial Mat as a Complete Natural Fish Feed System	75,000
319 *	Dominican REP	Education	USAID	Learning Technologies for Basic Education	325,000
387	Dominican REP	Health	USAID	The Use of Rice-based and Glycine-enriched Oral Rehydration Solutions in an Infant Population in Dominican Republic	75,000
388	Dominican REP	Health	USAID	A Study of Soil Metal Absorption and Deposition in Human Inhabitants of the Dominican Republic	75,000
389	Dominican REP	Health	USAID	AIDS Prevention	300,000
443	Dominican REP	Population	USAID	Family Planning Services Expansion	5,000
243	East Asia	Agriculture	USAID	Improved Animal Vaccines through Biotechnology: Phase I, Rinderpest	85,000
444	East Asia	Population	USAID	Conference on ANE Women in Demographic Transition	100,000
217	Ecuador	Agriculture	USAID	Agricultural Research, Extension and Education	900,000
166	Ecuador	Environment	EPA	Case study on the costs to Ecuador of Complying with the Montreal Protocol on Substances that Deplete the Ozone Layer	50,000
363	Ecuador	Environment	USAID	Forestry Sector Development	618,000
364	Ecuador	Environment	USAID	Natural Resource Conservation, Ecuador	2,100,000
365	Ecuador	Environment	USAID	Forestry Sector Development Project	50,000

Science & Technology Activities listed by Country -- Agencies other than NSF

REF#	Country	Sector	Agency	Title of Activity	Funding
370	* Ecuador	Environment	USAID	Coastal Resources Management	350,000
218	Egypt	Agriculture	USAID	National Agricultural Research Program	3,600,000
219	Egypt	Agriculture	USAID	Irrigation Management Systems	900,000
248	* Egypt	Agriculture	USAID	Reproductive Studies on Milkfish (Oceanic Institute, Hawaii).	400,000
493	Egypt	Agriculture	USDA	Field Studies on Sodic Soil Reclamation to Determine the most Effective Placement of Amendments: Soil Location and Time	30,000
84	Egypt	Earth SCI/Terre	DOI	Training in Uranium Exploration	5,000
311	Egypt	Education	USAID	University Linkages	5,000,000
324	* Egypt	Education	USAID	Basic Research in Developing Education Systems (BRIDGES)	212,500
186	Egypt	Energy	NRC	NRC Arrangement with Egypt on Nuclear Safety Technical Information Exchange and Cooperation	0
334	Egypt	Energy	USAID	Alexandria Electric	1,000
335	Egypt	Energy	USAID	Power Sector Support	6,800,000
336	Egypt	Energy	USAID	Management Information System - Egypt	700,000
112	Egypt	Environment	DOI	Special Foreign Currency Program - Egypt	5,000
2	Egypt	Health	DHHS	US - Egypt Cooperative Health Program	3,000,000
6	* Egypt	Health	DHHS	Food, Drug and Biologicals Technical Cooperations Missions	45,455
9	* Egypt	Health	DHHS	International Cooperation on Environmental Health Sciences	1,000,000
12	* Egypt	Health	DHHS	International Cooperation on Research Resources	128,571
13	* Egypt	Health	DHHS	International Cooperation on Heart, Lung, & Blood Research	1,000,000
14	* Egypt	Health	DHHS	Health Science Communications	42,857
15	* Egypt	Health	DHHS	International Health Statistics Cooperation	50,000
23	* Egypt	Health	DHHS	International Cooperation in Cancer Research	5,000,000
26	* Egypt	Health	DHHS	International Cooperation on Allergy and Infectious Diseases	1,437,500
390	Egypt	Health	USAID	Child Survival	1,000,000
399	* Egypt	Health	USAID	Functional Implications of Malnutrition - CRSP	175,000
445	Egypt	Population	USAID	Population Project/Family Planning II	3,200,000
145	Egypt	SCI Policy/Umbr	DOS	Agreement Relating to Cooperation in the Areas of Science and Technology	0
468	Egypt	Techno/Industry	USAID	Science and Technology for Development	2,700,000
319	* El Salvador	Education	USAID	Learning Technologies for Basic Education	325,000
94	* Ethiopia	Earth SCI/Terre	DOI	Understanding Earthquakes and Mitigating their Effects Training Course	2,727
140	* Ethiopia	Other Life SCI	DOI	Famine Early Warning Systems	71,429
220	Gambia, The	Agriculture	USAID	Gambia Agricultural Sector Assessment	100,000
18	* Gambia, The	Health	DHHS	Vaccine Research and Development	300,000
494	Ghana	Agriculture	USDA	Publication of forest Insects of Ghana	2,000
94	* Ghana	Earth SCI/Terre	DOI	Understanding Earthquakes and Mitigating their Effects Training Course	2,727
322	* Ghana	Education	USAID	Advancing Basic Education and Literacy: (ABEL)	375,000
318	* Grenada	Education	USAID	Educational Technology: Studies and Applications	550,000
221	Guatemala	Agriculture	USAID	Wool Products Processing Project	48,000
222	Guatemala	Agriculture	USAID	Guatemala Rural Export Development	100,000
495	Guatemala	Agriculture	USDA	Wood Utilization and Market Component of RENARM	22,500
550	* Guatemala	Agriculture	USDA	Mexico/U.S. Commission for the Eradication of Screwworm	9,425,000
551	* Guatemala	Agriculture	USDA	Medfly/MOSCAMED-(Mediterranean Fruit Fly Program in Guatemala, Belize, and Mexico	1,766,667
312	Guatemala	Education	USAID	Basic Education Strengthening Project: Education Administration Component, Applied Research Component	800,000
320	* Guatemala	Education	USAID	Clearinghouse on Development Communication	100,000
322	* Guatemala	Education	USAID	Advancing Basic Education and Literacy: (ABEL)	375,000
366	Guatemala	Environment	USAID	PD&S: Tropical Forest Action Plan	15,000
20	* Guatemala	Health	DHHS	International Cooperation on Child Health and Human Development	454,545
458	Guatemala	Social Sciences	USAID	Access to Land, Water and Other Natural Resources II Project	122,000
323	* Guinea	Education	USAID	Improving the Efficiency of Educational Systems (IEES)	400,000
10	* Guinea	Health	DHHS	Africa Child Survival Initiative: Combatting Childhood Communicable Diseases	700,000
223	Haiti	Agriculture	USAID	Targeted Watershed Management	2,000,000
224	Haiti	Agriculture	USAID	Coffee Revitalization	700,000
313	Haiti	Education	USAID	Incentives to Improve Basic Education Research Component	800,000
323	* Haiti	Education	USAID	Improving the Efficiency of Educational Systems (IEES)	400,000

Science & Technology Activities listed by Country -- Agencies other than NSF

REF#	Country	Sector	Agency	Title of Activity	Funding
391	Haiti	Health	USAID	Haitian Medicinal Plants Research: An Ethnobotanical and Ethnopharmacological Study of Haiti's Medicinal Plants	75,000
446	Haiti	Population	USAID	Private Sector Family Planning	100,000
459	Haiti	Social Sciences	USAID	Implementing Policy Change	75,000
246 *	Honduras	Agriculture	USAID	Pond Dynamics/Aquaculture Collaborative Research Support Program (Oregon State University).	225,000
85	Honduras	Earth SCI/Terre	DOI	Analysis and Interpretation of Oil and Gas Seeps,Shows	5,000
314	Honduras	Education	USAID	Primary Education Efficiency: Education Research Component	75,000
319 *	Honduras	Education	USAID	Learning Technologies for Basic Education	325,000
324 *	Honduras	Education	USAID	Basic Research in Developing Education Systems (BRIDGES)	212,500
348 *	Honduras	Energy	USAID	Biomass Energy Systems and Technology Project, Collaborative Research on the Tropics	15,000
73	India	Agriculture	DOI	Germplasm Enhancement for Drought Tolerance and Reclamation of Wastelands--Rehabilitation of Mined Wastelands	5,000
225	India	Agriculture	USAID	Agricultural Research	600,000
226	India	Agriculture	USAID	Indo-US Science & Technology Initiative - Agriculture	513,000
496	India	Agriculture	USDA	Germplasm Enhancement for Drought Tolerance and Reclamation of Wastelands: Rabi Sorghum Improvement (Solapur Center)	0
497	India	Agriculture	USDA	Germplasm Enhancement for Drought Tolerance Reclamation of Wastelands and Yield Stability (Bijapur Center)	0
498	India	Agriculture	USDA	Hormonal Control of Reproductive Biology of Prawns of Commercial Importance	30,000
499	India	Agriculture	USDA	Respiratory Mycoplasmosis of Domestic Animals	30,000
500	India	Agriculture	USDA	Development and use of Indigenous Microbial Pathogens for the Control of "Heliothis..." in Different Cropping Systems...	0
501	India	Agriculture	USDA	Biodegradation of Commonly Used Pesticides in Tropical Rice Ecosystems	0
502	India	Agriculture	USDA	Studies on Meadow Orcharding System in Peach Production	0
503	India	Agriculture	USDA	Systematics of Elateridae ("Coleoptera insecta")	5,000
504	India	Agriculture	USDA	Studies on Production, Physicochemical, Biochemical, Rheological Characteristics, and Uses...Industrially Potential Gums	0
505	India	Agriculture	USDA	Survey for Natural Enemies of Economically Important Leafhopper Pests of Cultivated Plants in India	0
506	India	Agriculture	USDA	Studies on Avian Adenoviruses with Special Reference to Epidemiology, Pathology, and Immunology	0
507	India	Agriculture	USDA	All-India Coordinated Research Program on Weed Control (Center - Birsa Agricultural University)	30,000
508	India	Agriculture	USDA	Germplasm Enhancement for Drought Tolerance and Reclamation of Wastelands: Yield Stabilization under Drought Conditions	0
509	India	Agriculture	USDA	Photosynthesis and Crop Productivity under Tropical Environment: ...Bioproductivity in Ragi and Groundnut	0
510	India	Agriculture	USDA	Germplasm Enhancement for Drought Tolerance and Reclamation of Wastelands: ...Drought Tolerance and Yield (Hyderabad C.)	0
511	India	Agriculture	USDA	Effect of Additives on Fastness Characteristics and Formaldehyde Release of Dyed Durable Press Finished Cotton Fabrics	0
512	India	Agriculture	USDA	Development of Yarn and Fabric Structures for Better Apparel Comfort ...using Cotton and Cotton/Man-made Fiber Blends	30,000
513	India	Agriculture	USDA	General Survey, Systematics, and the Biology of Freshwater Prawns of Bhopal and Hoshangabad Districts with ...	0
514	India	Agriculture	USDA	Biosystematics and Bionomic of Acridoid Grasshoppers	0
515	India	Agriculture	USDA	Long-term Outcomes of Nutritional Intervention with Low Cost Locally Available Foods on Children from Birth to 12 Years	0
516	India	Agriculture	USDA	Predicting Impact of Parasitoids on "Heliothis Armigera"	0
517	India	Agriculture	USDA	Germplasm Enhancement for Drought Tolerance and Reclamation of Mined Wastelands (Jodhpur Center)	0
518	India	Agriculture	USDA	Freezing of Goat Semen	30,000
519	India	Agriculture	USDA	Standardization or: Tissue/apical Meristem Culture Techniques in Horticultural Crops of Kerala	0
520	India	Agriculture	USDA	Germplasm Enhancement for Drought Tolerance and Reclamation of Wastelands (Coordinating Unit)	0
521	India	Agriculture	USDA	Germplasm Enhancement for Drought Tolerance and Reclamation of Wastelands: Genotypic Variability and Grain Yield	0

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REF#	Country	Sector	Agency	Title of Activity	Funding
522	India	Agriculture	USDA	Inhibitors of Insect Growth and Reproduction Derived from Natural Products	0
523	India	Agriculture	USDA	Comparative Sterol Utilization, Ecdysteroid Biosynthesis and Metabolism in Insects	0
524	India	Agriculture	USDA	Comparative Evaluation of Selection of Broilers on the Basis of Growth Rate Versus Feed Efficiency	0
525	India	Agriculture	USDA	Gene Manipulation in Rice through Plant Tissue and Cell Culture	0
526	India	Agriculture	USDA	Effect of Agrochemicals on Soil Microflora	0
527	India	Agriculture	USDA	Enhancing Fertilizer Use Efficiency in conjunction with Residue Management in Dryland Crops and Cropping Systems	0
528	India	Agriculture	USDA	Enhancing Fertilizer Use Efficiency in conjunction with Residue Management in Dryland Crops: Low Rainfall Arid Regions	0
529	India	Agriculture	USDA	Integrated Project for Soil Conservation and Watershed Management (Bangalore Center)	0
530	India	Agriculture	USDA	Enhancing Fertilizer Use Efficiency in conjunction with Residue Management in Dryland Crops and Cropping Systems	0
531	India	Agriculture	USDA	Integrated Project for Soil Conservation and Watershed Management for Alluvial Soils and Ravine Region (Agra Center)	0
532	India	Agriculture	USDA	Dev. of Models to Simulate Field Water Balance and Water Use-Crop Yield: Maize-Wheat System (Ludhiana Center)	0
533	India	Agriculture	USDA	Integrated Project for Soil Conservation and Watershed Management (Coordinating Unit)	0
534	India	Agriculture	USDA	Development of Models to Simulate Field Water Balance and Water Use-Crop Yield: (Jodhpur Center)	0
535	India	Agriculture	USDA	Development of Models to Simulate Field Water Balance, Water Use-Crop Yields: (Coordinating Unit)	0
536	India	Agriculture	USDA	Integrated Project for Soil Conservation and Watershed Management	0
537	India	Agriculture	USDA	Enhancing Fertilizer Use Efficiency in conjunction with Residue Management in Dryland Crops: Soil-Water-Nitrogen	0
538	India	Agriculture	USDA	Cataloguing and Prebreeding of Wheat Genetic Resources	0
539	India	Agriculture	USDA	Research on Mechanization of Dryland Agriculture (Raichur Center)	0
540	India	Agriculture	USDA	Research on Mechanization of Dryland Agriculture (Bangalore Center)	0
541	India	Agriculture	USDA	Research Mechanization of Dryland Agriculture (Coordinating Unit)	0
542	India	Agriculture	USDA	Development of Models to Simulate Field Water Balance and Water Use-Crop Yield: (Hyderabad Center)	0
543	India	Agriculture	USDA	Integrated Project for Soil Conservation and Watershed Management (Bellary Center)	0
544	India	Agriculture	USDA	Integrated Project for Soil Conservation and Watershed Management (Indore Center)	0
37	India	Earth SCI/Atmos	DOC	Indo-US Climate Research Program	200,000
86	India	Earth SCI/Terre	DOI	Central Ground Water Board (CGWB) Ground Water Training/Research	300,000
87	India	Earth SCI/Terre	DOI	Environmental Model for Water Quality of India Coal Mines Including Cost Effective Treatment Technology	5,000
88	India	Earth SCI/Terre	DOI	Conceptual Environmental Management Plan for Coal Mines in India (Singrauli Coalfield).	5,000
89	India	Earth SCI/Terre	DOI	Conceptual Environmental Management Plan - Jharia Coalfield	5,000
177	India	Earth SCI/Terre	NASA	NASA/National Geophysical Research Institute of India (Crustal Dynamics Project)	150,000
337	India	Energy	USAID	Program for Acceleration of Commercial Energy Research	200,000
338	India	Energy	USAID	Long-Term Issues in the Indian Power Sector	100,000
339	India	Energy	USAID	Develop an End-use Efficiency Technology Menu	200,000
340	India	Energy	USAID	Support to USAID/India on Program for the Acceleration and Commercialization of Energy Research (PACER)	30,000
341	India	Energy	USAID	Complete Integrated Gasification Combined Cycle (IGCC) Feasibility Study	100,000
342	India	Energy	USAID	Integrated Gasification Combined Cycle Feasibility Assessment - India	75,000

Science & Technology Activities Listed by Country -- Agencies other than NSF

REF#	Country	Sector	Agency	Title of Activity	Funding
349 *	India	Energy	USAID	Biomass Energy Systems and Technology Project, Biomass Gasification Study	166,667
113	India	Environment	DOI	Wildlife Institute of India/FWS Collaborative Project	120,000
114	India	Environment	DOI	Special Foreign Currency Program - US India Fund	5,000
167	India	Environment	EPA	Interaction on Environmental and Genetic factors on Pregnancy Outcome	0
168	India	Environment	EPA	Pregnancy - Environmental & Genetic Factors Symposia	5,000
169	India	Environment	EPA	Health Risk Assessment Symposia	5,000
3	India	Health	DHHS	Emergency Medicine and Trauma Technology	50,000
4	India	Health	DHHS	Indo-US Vaccine Action Program	1,200,000
5	India	Health	DHHS	US - India Health Cooperation	1,200,000
6 *	India	Health	DHHS	Food, Drug and Biologicals Technical Cooperations Missions	45,455
7 *	India	Health	DHHS	International Dental Research	400,000
8 *	India	Health	DHHS	International Cooperation on Neurological Disorders and Stroke	3,600,000
9 *	India	Health	DHHS	International Cooperation on Environmental Health Sciences	1,000,000
11 *	India	Health	DHHS	Foreign Epidemiology Training Program	200,000
13 *	India	Health	DHHS	International Cooperation on Heart, Lung, & Blood Research	1,000,000
14 *	India	Health	DHHS	Health Science Communications	42,858
15 *	India	Health	DHHS	International Health Statistics Cooperation	50,000
16 *	India	Health	DHHS	International Cooperation on Metal Health	250,000
17 *	India	Health	DHHS	International Cooperation on Aging	300,000
19 *	India	Health	DHHS	International Cooperation on Drug Abuse	166,667
20 *	India	Health	DHHS	International Cooperation on Child Health and Human Development	454,545
21 *	India	Health	DHHS	International Cooperation on Alcoholism and Alcohol Abuse	150,000
22 *	India	Health	DHHS	International Cooperation on Prevention of Blindness Program	375,000
23 *	India	Health	DHHS	International Cooperation in Cancer Research	5,000,000
26 *	India	Health	DHHS	International Cooperation on Allergy and Infectious Diseases	1,437,500
141	India	Health	DOS	Indo-U.S. Vaccine Action Program	0
392	India	Health	USAID	Vaccine and Immunodiagnostic Development of the Indo-US Vaccine Action Program	1,000,000
393	India	Health	USAID	Biomedical Research Support	300,000
447	India	Population	USAID	Family Planning - Communications and Marketing	200,000
448	India	Population	USAID	Contraceptive Development and Research in Immunology	300,000
146	India	SCI Policy/Umbr	DOS	Subcommission on Science and Technology	0
147	India	SCI Policy/Umbr	DOS	U.S. - India Fund (USIF)	0
148	India	SCI Policy/Umbr	DOS	Indo-U.S. Science and Technology Initiative	0
460	India	Social Sciences	USAID	Systems Approach to Regional Income and Sustainable Resource Assistance (SARSA II)	200,000
52	India	Space Sciences	DOC	Coordinated Studies of Solar Radiations and Solar Activity and Energetic Mass Ejections	100,000
56	India	Techno/Industry	DOC	Collaborative Research in Physical Sciences	5,000
469	India	Techno/Industry	USAID	Program for the Advancement of Commercial Technology	1,600,000
227	Indonesia	Agriculture	USAID	Applied Agricultural Research	200,000
228	Indonesia	Agriculture	USAID	Upland Agriculture & Conservation Component: Applied Farming System Research	100,000
229	Indonesia	Agriculture	USAID	Economic Evaluation of Alternative Investment Opportunities in Upland Agriculture in Indonesia	75,000
230	Indonesia	Agriculture	USAID	Fish Research and Development	300,000
244 *	Indonesia	Agriculture	USAID	Soil Management Collaborative Research Support Program (North Carolina State University).	708,750
248 *	Indonesia	Agriculture	USAID	Reproductive Studies on Milkfish (Oceanic Institute, Hawaii).	400,000
249 *	Indonesia	Agriculture	USAID	Small Ruminant Collaborative Research Support Program	466,667
41	Indonesia	Earth SCI/Ocean	DOC	Collaboration in Climate and Related Investigations	5,000
94 *	Indonesia	Earth SCI/Terre	DOI	Understanding Earthquakes and Mitigating their Effects Training Course	2,727
323 *	Indonesia	Education	USAID	Improving the Efficiency of Educational Systems (IEES)	400,000
324 *	Indonesia	Education	USAID	Basic Research in Developing Education Systems (BRIDGES)	212,500
343	Indonesia	Energy	USAID	Case Study for Implementing Least-Cost Strategies to Reduce Greenhouse Gas Emissions: Efficient Lighting	75,000
344	Indonesia	Energy	USAID	PUSPIPTEK Energy Research Laboratory	75,000
348 *	Indonesia	Energy	USAID	Biomass Energy Systems and Technology Project, Collaborative Research on the Tropics	15,000

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REF#	Country	Sector	Agency	Title of Activity	Funding
349 *	Indonesia	Energy	USAID	Biomass Energy Systems and Technology Project, Biomass Gasification Study	166,667
372 *	Indonesia	Environment	USAID	Decentralization: Finance and Management	71,429
12 *	Indonesia	Health	DHHS	International Cooperation on Research Resources	128,571
18 *	Indonesia	Health	DHHS	Vaccine Research and Development	300,000
20 *	Indonesia	Health	DHHS	International Cooperation on Child Health and Human Development	454,545
398 *	Indonesia	Health	USAID	Technologies for Child Health (HEALTHTECH)	666,667
400 *	Indonesia	Health	USAID	Applied Diarrheal Disease Research	142,857
402 *	Indonesia	Health	USAID	Child Survival Action Program - Support	800,000
449 *	Indonesia	Population	USAID	Demographic and Health Surveys	533,333
149	Indonesia	SCI Policy/Umbr	DOS	U.S. Indonesian Agreement for Cooperation in Scientific Research and Technological Development	0
94 *	Iran	Earth SCI/Terre	DOI	Understanding Earthquakes and Mitigating their Effects Training Course	2,727
74	Israel	Agriculture	DOI	Ministry of Agriculture S&T	5,000
42	Israel	Earth SCI/Ocean	DOC	Memorandum of Understanding between NOAA and IOLR	5,000
90	Israel	Earth SCI/Terre	DOI	Kinetics of Kerogen Thermal Maturation and Oil Generation as measured by Vitrinite Reflectance	5,000
187	Israel	Energy	NRC	NRC Arrangement with Israel on Nuclear Safety Technical Information Exchange and Cooperation	0
115	Israel	Environment	DOI	Israeli Oceanographic and Limnological Research (IOLR)	5,000
24 *	Israel	Health	DHHS	International Collaboration in Infectious Disease Research Awards	625,000
10 *	Ivory Coast	Health	DHHS	Africa Child Survival Initiative: Combatting Childhood Communicable Diseases	700,000
231	Jamaica	Agriculture	USAID	Hillside Assessment Project	100,000
232	Jamaica	Agriculture	USAID	Agricultural Research Project	600,000
94 *	Jamaica	Earth SCI/Terre	DOI	Understanding Earthquakes and Mitigating their Effects Training Course	2,727
315	Jamaica	Education	USAID	Primary Education Assistance II, Student Testing Component	75,000
350 *	Jamaica	Energy	USAID	Biomass Energy and Technology Project, Collection of Sugar Cane Field Residues	50,000
233	Jordan	Agriculture	USAID	National Agricultural Development	1,500,000
91	Jordan	Earth SCI/Terre	DOI	Technical Services and Feasibility Studies V	80,000
322 *	Jordan	Education	USAID	Advancing Basic Education and Literacy: (ABEL)	375,000
324 *	Jordan	Education	USAID	Basic Research in Developing Education Systems (BRIDGES)	212,500
367	Jordan	Environment	USAID	Environmental Services Development	100,000
6 *	Jordan	Health	DHHS	Food, Drug and Biologicals Technical Cooperations Missions	45,455
394	Jordan	Health	USAID	Family Health Services	200,000
449 *	Jordan	Population	USAID	Demographic and Health Surveys	533,333
470	Jordan	Techno/Industry	USAID	Industrial Development	300,000
471	Jordan	Techno/Industry	USAID	Technical Services and Feasibility Studies V	500,000
245 *	Kenya	Agriculture	USAID	Food Security in Africa	100,000
249 *	Kenya	Agriculture	USAID	Small Ruminant Collaborative Research Support Program	466,667
368	Kenya	Environment	USAID	SARSA - Kenya	30,000
12 *	Kenya	Health	DHHS	International Cooperation on Research Resources	128,571
395	Kenya	Health	USAID	Malaria Vaccine Research and Development	7,500,000
398 *	Kenya	Health	USAID	Technologies for Child Health (HEALTHTECH)	666,667
399 *	Kenya	Health	USAID	Functional Implications of Malnutrition - CRSP	175,000
400 *	Kenya	Health	USAID	Applied Diarrheal Disease Research	142,857
461	Kenya	Social Sciences	USAID	Systems Approach to Regional Income and Sustainable Resource Assistance (SSRSA II)	60,000
234	Latin America	Agriculture	USAID	LAC WID Research	200,000
316	Latin America	Education	USAID	Education and Human Resources Technical Services Project, Cross-cutting Evaluations Component	30,000
321	Latin America	Education	USAID	All-sector Service Agencies for Nonformal Training and Education (ASANTE)	750,000
14	Latin America	Health	DHHS	Health Science Communications	42,858
403	Latin America	Health	USAID	Health and Nutrition Technical Services Support	37,500
47	Latin America	Social Sciences	DOC	ESAYTEC Joint Training Program with Mexico	100,000
48	Latin America	Social Sciences	DOC	Institute for Hemispheric Studies	250,000
172 *	Lesotho	Environment	EPA	USA/Southern Africa INFOTERRA Regional Companionship PGM	12,500
10 *	Lesotho	Health	DHHS	Africa Child Survival Initiative: Combatting Childhood Communicable Diseases	700,000

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REF#	Country	Sector	Agency	Title of Activity	Funding
10 *	Liberia	Health	DHHS	Africa Child Survival Initiative: Combatting Childhood Communicable Diseases	700,000
12 *	Liberia	Health	DHHS	International Cooperation on Research Resources	128,571
550 *	Libya	Agriculture	USDA	Mexico/U.S. Commission for the Eradication of Screwworm	9,425,000
372 *	Madagascar	Environment	USAID	Decentralization: Finance and Management	71,429
245 *	Malawi	Agriculture	USAID	Food Security in Africa	100,000
322 *	Malawi	Education	USAID	Advancing Basic Education and Literacy: (ABEL)	375,000
172 *	Malawi	Environment	EPA	USA/Southern Africa INFOTERRA Regional Companionship PGM	12,500
25 *	Malawi	Health	DHHS	International Collaboration in AIDS Research	500,000
6 *	Malaysia	Health	DHHS	Food, Drug and Biologicals Technical Cooperations Missions	45,455
17 *	Malaysia	Health	DHHS	International Cooperation on Aging	300,000
20 *	Malaysia	Health	DHHS	International Cooperation on Child Health and Human Development	454,545
235	Mali	Agriculture	USAID	Agroforestry Workshop	75,000
236	Mali	Agriculture	USAID	Food Security in Africa	110,000
241 *	Mali	Agriculture	USAID	Mini-Dehullers	33,000
242 *	Mali	Agriculture	USAID	Treadle Pumps	13,000
244 *	Mali	Agriculture	USAID	Soil Management Collaborative Research Support Program (North Carolina State University).	708,750
317	Mali	Education	USAID	BEEP Mali	100,000
322 *	Mali	Education	USAID	Advancing Basic Education and Literacy: (ABEL)	375,000
369	Mali	Environment	USAID	Access to Land, Water and Other Natural Resources II Project	150,000
26 *	Mali	Health	DHHS	International Cooperation on Allergy and Infectious Diseases	1,437,500
140 *	Mali	Other Life SCI	DOI	Famine Early Warning Systems	71,429
140 *	Mauritania	Other Life SCI	DOI	Famine Early Warning Systems	71,429
545	Mexico	Agriculture	USDA	Mexico Forest Inventory	58,000
546	Mexico	Agriculture	USDA	Mexico/U.S. Commission for the Prevention of FMD and other Exotic Animal Diseases	600,000
550 *	Mexico	Agriculture	USDA	Mexico/U.S. Commission for the Eradication of Screwworm	9,425,000
551 *	Mexico	Agriculture	USDA	Medfly/MOSCAMED-(Mediterranean Fruit Fly Program in Guatemala, Belize, and Mexico	1,766,667
92	Mexico	Earth SCI/Terre	DOI	Collaborative Research on Large Thrust Earthquakes that have occurred along the Cocos-N. Am. Plate Boundary of W. Mexico	55,000
93	Mexico	Earth SCI/Terre	DOI	Computer-assisted Change Detection for 1:50,000-scale Map Revision in Mexico using Satellite Data.	5,000
94 *	Mexico	Earth SCI/Terre	DOI	Understanding Earthquakes and Mitigating their Effects Training Course	2,727
178	Mexico	Earth SCI/Terre	NASA	NASA/Mexican Instituto Oceanografico, Secretaria de Marina (Crustal Dynamics Project)	300,000
69	Mexico	Energy	DOE	Energy Research and Information Exchange on Mexican Geothermal Reservoirs in Sedimentary and Fractured Igneous Rocks	0
188	Mexico	Energy	NRC	NRC Umbrella Research Agreement with Mexico--Nuclear Safety Research	0
189	Mexico	Energy	NRC	NRC Implementing Procedures with Mexico on Nuclear Safety Technical Information Exchange & Cooperation	0
116	Mexico	Environment	DOI	Wintering Ecology of Northern Pintails on Upper East Coast of Mexico	30,000
117	Mexico	Environment	DOI	Ecology of Redhead Duck in Laguna Modre de Tamauhpas in Mexico	5,000
118	Mexico	Environment	DOI	Winter Ecology of Pacific Black Brant in Mexico	30,000
119	Mexico	Environment	DOI	Study of Ecology and Habitat of Peregrine Falcons along the US/Mexico Border	5,000
120	Mexico	Environment	DOI	Study of Ecology and Habitat of Black Bears along the US/Mexico Border	5,000
121	Mexico	Environment	DOI	Use of Habitat by Migrant Passerines	5,000
122	Mexico	Environment	DOI	Neotropical Migratory Bird Habitat Study	0
123	Mexico	Environment	DOI	Evaluation of the Population of the Mexican Duck in the States of Jalisco and Durango	30,000
124	Mexico	Environment	DOI	Autumn migration of raptors	5,000
125	Mexico	Environment	DOI	Evaluation of the Populations of Sandhill Cranes in the State of Chihuahua	5,000
126	Mexico	Environment	DOI	Evaluation of Migratory Waterfowl Harvest at Selected Locations in Mexico	30,000
127	Mexico	Environment	DOI	Waterfowl Hunting Harvest Evaluation in Chihuahua	5,000

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REF#	Country	Sector	Agency	Title of Activity	Funding
128	Mexico	Environment	DOI	Reserve Manager Training Program (RESERVA)	200,000
129	Mexico	Environment	DOI	Tripartite Committee for Wetlands Conservation	200,000
130	Mexico	Environment	DOI	Food Habits of the Snow Goose during Winter in the States of Chihuahua - Durango	5,000
131	Mexico	Environment	DOI	Distribution of Subpopulations of Greater White-fronted Geese on the Pacific Coast of Mexico	30,000
132	Mexico	Environment	DOI	White-Wing Dove	5,000
133	Mexico	Environment	DOI	Waterfowl Surveys	30,000
134	Mexico	Environment	DOI	Desert Fishes Conservation	5,000
135	Mexico	Environment	DOI	Endangered Species Cooperative Activities in Mexico	200,000
136 *	Mexico	Environment	DOI	Research and Monitoring of Ecology and Habitat of Migratory Birds	10,000
170	Mexico	Environment	EPA	CFC-12 Recycling from Mobile Air Conditioning systems in Mexico: Elimination of CFC-Aerosol Propellants in Mexico	0
171	Mexico	Environment	EPA	Mexico City Bilateral Agreement	5,000
7 *	Mexico	Health	DHHS	International Dental Research	400,000
8 *	Mexico	Health	DHHS	International Cooperation on Neurological Disorders and Stroke	3,600,000
9 *	Mexico	Health	DHHS	International Cooperation on Environmental Health Sciences	1,000,000
11 *	Mexico	Health	DHHS	Foreign Epidemiology Training Program	200,000
13 *	Mexico	Health	DHHS	International Cooperation on Heart, Lung, & Blood Research	1,000,000
14 *	Mexico	Health	DHHS	Health Science Communications	42,858
18 *	Mexico	Health	DHHS	Vaccine Research and Development	300,000
19 *	Mexico	Health	DHHS	International Cooperation on Drug Abuse	166,667
20 *	Mexico	Health	DHHS	International Cooperation on Child Health and Human Development	454,545
21 *	Mexico	Health	DHHS	International Cooperation on Alcoholism and Alcohol Abuse	150,000
23 *	Mexico	Health	DHHS	International Cooperation in Cancer Research	5,000,000
25 *	Mexico	Health	DHHS	International Collaboration in AIDS Research	500,000
181	Mexico	Health	NASA	NASA/Secretariat of Health of the Government of Mexico (Malaria, Remote Sensing)	750,000
399 *	Mexico	Health	USAID	Functional Implications of Malnutrition - CRSP	175,000
400 *	Mexico	Health	USAID	Applied Diarrheal Disease Research	142,857
150	Mexico	SCI Policy/Umbr	DOS	Agreement between the U.S.A. and Mexico for Scientific and Technical Cooperation	0
47 *	Mexico	Social Sciences	DOC	ESAYTEC Joint Training Program with Mexico	100,000
57	Mexico	Techno/Industry	DOC	Exchange of Information and Scientists	0
158	Mexico	Techno/Industry	DOT	Memorandum of Understanding - Cooperation & Transportation	0
396	Middle East	Health	USAID	West Bank/Gaza Development	900,000
547	Mongolia	Agriculture	USDA	Improved Utilization of Soil Resource Information	30,000
548	Mongolia	Agriculture	USDA	Plant Materials for Protection and Improvement of Grazing Lands	5,000
151	Mongolia	SCI Policy/Umbr	DOS	Agreement Relating to Scientific and Technical Cooperation between the U.S.A. and the Mongolian People's Republic	0
237	Morocco	Agriculture	USAID	Planning, Economics, Statistics for Agriculture	600,000
238	Morocco	Agriculture	USAID	Dryland Agriculture Applied Research	2,600,000
249 *	Morocco	Agriculture	USAID	Small Ruminant Collaborative Research Support Program	466,667
345	Morocco	Energy	USAID	Energy Demand Management	700,000
397	Morocco	Health	USAID	Health Care Financing	200,000
239	Mozambique	Agriculture	USAID	Access to Land, Water and Other Natural Resources II Project	230,000
240	Mozambique	Agriculture	USAID	Food Security in Africa	350,000
250	Nepal	Agriculture	USAID	Analysis of Agricultural Household Resource Distribution	75,000
251	Nepal	Agriculture	USAID	Utilization of a Subsurface Plankton Peak to Enhance the Aquacultural Program in Lake Pheqa, Nepal	75,000
252	Nepal	Agriculture	USAID	Agricultural Research and Production	950,000
96	Nepal	Earth SCI/Terre	DOI	Marsyangdi Hydroelectric Project	0
319 *	Nepal	Education	USAID	Learning Technologies for Basic Education	325,000
323 *	Nepal	Education	USAID	Improving the Efficiency of Educational Systems (IEES)	400,000
372 *	Nepal	Environment	USAID	Decentralization: Finance and Management	71,429
22 *	Nepal	Health	DHHS	International Cooperation on Prevention of Blindness Program	375,000
244 *	Niger	Agriculture	USAID	Soil Management Collaborative Research Support Program (North Carolina State University).	708,750
253	Niger	Agriculture	USAID	Utilizing Agricultural By-products for Small Ruminants in Niger	75,000
97	Nigeria	Earth SCI/Terre	DOI	Petroleum Geochemistry of Benue Trough	5,000

Science & Technology Activities listed by Country -- Agencies other than NSF

REF#	Country	Sector	Agency	Title of Activity	Funding
7 *	Nigeria	Health	DHHS	International Dental Research	400,000
10 *	Nigeria	Health	DHHS	Africa Child Survival Initiative: Combatting Childhood Communicable Diseases	700,000
400 *	Nigeria	Health	USAID	Applied Diarrheal Disease Research	142,857
404	Nigeria	Health	USAID	Use of Mixed Microbial Ecosystems Generated on Silaged Grass to Remove Coliform Bacteria from Sewage Water	75,000
449 *	Nigeria	Population	USAID	Demographic and Health Surveys	533,333
254	Oceania	Agriculture	USAID	South Pacific Fisheries Development	75,000
405	Oceania	Health	USAID	PNG Child Survival Project	75,000
49	Oceania	Social Sciences	DOC	Census of the Federated States of Micronesia	100,000
255	Oman	Agriculture	USAID	Omani-American Joint Commission	200,000
256	Oman	Agriculture	USAID	Oman Marine Resources Technology	6,300,000
257	Oman	Agriculture	USAID	Fisheries Development Management	3,000,000
258	Pakistan	Agriculture	USAID	Forestry Planning and Development	900,000
259	Pakistan	Agriculture	USAID	Agriculture Sector Support Project (ASSP)	2,100,000
260	Pakistan	Agriculture	USAID	Management of Agriculture Research and Technology (MART)	3,000,000
261	Pakistan	Agriculture	USAID	Transformation and Integration of the Provincial Agriculture Network (TIPAN)	2,300,000
262	Pakistan	Agriculture	USAID	Tribal Areas Development	300,000
263	Pakistan	Agriculture	USAID	Irrigation Systems Management	500,000
94 *	Pakistan	Earth SCI/Terre	DOI	Understanding Earthquakes and Mitigating their Effects Training Course	2,727
324 *	Pakistan	Education	USAID	Basic Research in Developing Education Systems (BRIDGES)	212,500
325	Pakistan	Education	USAID	Institutional Excellence	800,000
326	Pakistan	Education	USAID	Primary Education Development Program	2,300,000
351	Pakistan	Energy	USAID	Energy Planning and Development	2,000,000
352	Pakistan	Energy	USAID	Rural Electrification	26,000,000
353	Pakistan	Energy	USAID	Private Sector Power	1,000,000
137	Pakistan	Environment	DOI	Special Foreign Currency Program - Pakistan	5,000
15 *	Pakistan	Health	DHHS	International Health Statistics Cooperation	50,000
19 *	Pakistan	Health	DHHS	International Cooperation on Drug Abuse	166,667
20 *	Pakistan	Health	DHHS	International Cooperation on Child Health and Human Development	454,545
22 *	Pakistan	Health	DHHS	International Cooperation on Prevention of Blindness Program	375,000
26 *	Pakistan	Health	DHHS	International Cooperation on Allergy and Infectious Diseases	1,437,500
400 *	Pakistan	Health	USAID	Applied Diarrheal Disease Research	142,857
406	Pakistan	Health	USAID	Malaria Control II	300,000
407	Pakistan	Health	USAID	Child Survival	300,000
408	Pakistan	Health	USAID	NWFP Area Development	2,800,000
409	Pakistan	Health	USAID	Development Support Training	4,000,000
410	Pakistan	Health	USAID	Accelerated Population Planning	1,300,000
449 *	Pakistan	Population	USAID	Demographic and Health Surveys	533,333
58	Pakistan	Techno/Industry	DOC	Exchanges of Scientific Information and Scientists	0
549 *	Panama	Agriculture	USDA	Commission for the Prevention of FMD-Panama, ICA/USDA Cooperative FMD Eradication	1,150,000
552	Papua NW Guinea	Agriculture	USDA	Silvicultural Guidelines for Community Forestry	18,000
319 *	Papua NW Guinea	Education	USAID	Learning Technologies for Basic Education	325,000
411	Papua NW Guinea	Health	USAID	Malaria Vaccine Field Studies	200,000
449 *	Paraguay	Population	USAID	Demographic and Health Surveys	533,333
244 *	Peru	Agriculture	USAID	Soil Management Collaborative Research Support Program (North Carolina State University).	708,750
249 *	Peru	Agriculture	USAID	Small Ruminant Collaborative Research Support Program	466,667
264	Peru	Agriculture	USAID	Soil Management Collaborative Research Support Program	200,000
553 *	Peru	Agriculture	USDA	Storage of Virus and Antisera Collection	5,000
95 *	Peru	Earth SCI/Terre	DOI	Training in Volcanic-hosted Precious-metal Deposits in South America	100,000
179	Peru	Earth SCI/Terre	NASA	NASA/Universidad Nacional de San Agustin (Crustal Dynamics Project)	75,000
327	Peru	Education	USAID	Private Sector Management Improvement, Private Sector Needs Component, Writing Case Studies Activities	0
190	Peru	Energy	NRC	NRC Letter Agreement with Peru Covering Nuclear Safety Documents and Information Exchange	0
6 *	Peru	Health	DHHS	Food, Drug and Biologicals Technical Cooperations Missions	45,455
11 *	Peru	Health	DHHS	Foreign Epidemiology Training Program	200,000
22 *	Peru	Health	DHHS	International Cooperation on Prevention of Blindness Program	375,000

Science & Technology Activities Listed by Country -- Agencies other than NSF

REF#	Country	Sector	Agency	Title of Activity	Funding
400 *	Peru	Health	USAID	Applied Diarrheal Disease Research	142,857
412	Peru	Health	USAID	Replication of Trypanosoma Kinetoplast DNA: Role of Minicircle DNA Catenated Dimers	75,000
247 *	Philippines	Agriculture	USAID	Fisheries Stock Assessment Collaborative Research Support Program (University of Maryland)	233,333
265	Philippines	Agriculture	USAID	Coco Charcoal Production	27,000
266	Philippines	Agriculture	USAID	PVO Co-Financing III	800,000
267	Philippines	Agriculture	USAID	Natural Resources Management Program	6,000,000
94 *	Philippines	Earth SCI/Terre	DOI	Understanding Earthquakes and Mitigating their Effects Training Course	2,727
98	Philippines	Earth SCI/Terre	DOI	Training in Earthquake Recurrence as seen in Trenches across Faults	30,000
328	Philippines	Education	USAID	Development Training	100,000
191	Philippines	Energy	NRC	NRC Arrangement with the Philippines on Nuclear Safety Information Exchange and Cooperation	0
350 *	Philippines	Energy	USAID	Biomass Energy and Technology Project, Collection of Sugar Cane Field Residues	50,000
354	Philippines	Energy	USAID	Rural Electrification	700,000
6 *	Philippines	Health	DHHS	Food, Drug and Biologicals Technical Cooperations Missions	45,455
11 *	Philippines	Health	DHHS	Foreign Epidemiology Training Program	200,000
17 *	Philippines	Health	DHHS	International Cooperation on Aging	300,000
20 *	Philippines	Health	DHHS	International Cooperation on Child Health and Human Development	454,545
413	Philippines	Health	USAID	Technical Resources Project	500,000
472	Philippines	Techno/Industry	USAID	Enterprise in Community Development	200,000
246 *	Rwanda	Agriculture	USAID	Pond Dynamics/Aquaculture Collaborative Research Support Program (Oregon State University).	225,000
268	Rwanda	Agriculture	USAID	Evaluation of Plant Derived Products for Protection of Beans and Sorghum in Rwandan Storages	75,000
269	Rwanda	Agriculture	USAID	Analysis of Tilapia Production Regimes in Rwanda	75,000
20 *	Rwanda	Health	DHHS	International Cooperation on Child Health and Human Development	454,545
449 *	Rwanda	Population	USAID	Demographic and Health Surveys	533,333
99	Saudi Arabia	Earth SCI/Terre	DOI	Technical Assistance to the Directorate General for Mineral Resources	0
70	Saudi Arabia	Energy	DOE	Renewable Energy Research and Development Cooperation	0
59	Saudi Arabia	Techno/Industry	DOC	Standard Assistance	250,000
25 *	Senegal	Health	DHHS	International Collaboration in AIDS Research	500,000
140 *	Senegal	Other Life SCI	DOI	Famine Early Warning Systems	71,429
462	Senegal	Social Sciences	USAID	Systems Approach to Regional Income and Sustainable Resource Assistance (SARSA II)	400,000
6 *	Seychelles	Health	DHHS	Food, Drug and Biologicals Technical Cooperations Missions	45,455
270	Sierra Leone	Agriculture	USAID	Assessment of Production of Small Ruminants in Sierra Leone	75,000
414	Sierra Leone	Health	USAID	The Socioeconomic Determinants of Infant Mortality, Fertility, and Contraceptive use in Freetown, Sierra Leone: Survey	75,000
322 *	South Africa	Education	USAID	Advancing Basic Education and Literacy: (ABEL)	375,000
346	Southeast Asia	Energy	USAID	Support for Reduction in Greenhouse Gas Emissions	100,000
322 *	Sri Lanka	Education	USAID	Advancing Basic Education and Literacy: (ABEL)	375,000
324 *	Sri Lanka	Education	USAID	Basic Research in Developing Education Systems (BRIDGES)	212,500
138	Sri Lanka	Environment	DOI	Training for Sri Lankan Department of Wildlife Conservation	200,000
370 *	Sri Lanka	Environment	USAID	Coastal Resources Management	350,000
7 *	Sri Lanka	Health	DHHS	International Dental Research	400,000
24 *	Sudan	Health	DHHS	International Collaboration in Infectious Disease Research Awards	625,000
140 *	Sudan	Other Life SCI	DOI	Famine Early Warning Systems	71,429
10 *	Swaziland	Health	DHHS	Africa Child Survival Initiative: Combatting Childhood Communicable Diseases	700,000
271	Tanzania	Agriculture	USAID	Regional Sunflower Press	37,000
172 *	Tanzania	Environment	EPA	USA/Southern Africa INFOTERRA Regional Companionship PGM	12,500
6 *	Tanzania	Health	DHHS	Food, Drug and Biologicals Technical Cooperations Missions	45,455
449 *	Tanzania	Population	USAID	Demographic and Health Surveys	533,333
246 *	Thailand	Agriculture	USAID	Pond Dynamics/Aquaculture Collaborative Research Support Program (Oregon State University).	225,000
272	Thailand	Agriculture	USAID	Agriculture Technology Transfer Project	700,000

Science & Technology Activities listed by Country -- Agencies other than NSF

REF#	Country	Sector	Agency	Title of Activity	Funding
273	Thailand	Agriculture	USAID	Integrating Agriculture and Rural Employment in Thailand	75,000
324 *	Thailand	Education	USAID	Basic Research in Developing Education Systems (BRIDGES)	212,500
350 *	Thailand	Energy	USAID	Biomass Energy and Technology Project, Collection of Sugar Cane Field Residues	50,000
370 *	Thailand	Environment	USAID	Coastal Resources Management	350,000
371 *	Thailand	Environment	USAID	Forestry/Fuelwood Research and Development	200,000
373	Thailand	Environment	USAID	Biomass Energy Systems and Technology Project, Long-term Agronomic Impacts of Residue Removal	30,000
6 *	Thailand	Health	DHHS	Food, Drug and Biologicals Technical Cooperations Missions	45,455
11 *	Thailand	Health	DHHS	Foreign Epidemiology Training Program	200,000
13 *	Thailand	Health	DHHS	International Cooperation on Heart, Lung, & Blood Research	1,000,000
17 *	Thailand	Health	DHHS	International Cooperation on Aging	300,000
20 *	Thailand	Health	DHHS	International Cooperation on Child Health and Human Development	454,545
22 *	Thailand	Health	DHHS	International Cooperation on Prevention of Blindness Program	375,000
26 *	Thailand	Health	DHHS	International Cooperation on Allergy and Infectious Diseases	1,437,500
398 *	Thailand	Health	USAID	Technologies for Child Health (HEALTHTECH)	666,667
400 *	Thailand	Health	USAID	Applied Diarrheal Disease Research	142,857
402 *	Thailand	Health	USAID	Child Survival Action Program - Support	800,000
60	Thailand	Techno/Industry	DOC	Science and Technology Development Cooperation	0
473	Thailand	Techno/Industry	USAID	Science and Technology for Development	1,200,000
10 *	Togo	Health	DHHS	Africa Child Survival Initiative: Combatting Childhood Communicable Diseases	700,000
329	Tunisia	Education	USAID	Technology Transfer	3,800,000
374	Tunisia	Environment	USAID	SARSA Tunisia - Water	30,000
463	Tunisia	Social Sciences	USAID	Development Studies	200,000
464	Tunisia	Social Sciences	USAID	Systems Approach to Regional Income and Sustainable Resource Assistance (SARSA II)	60,000
15 *	Turkey	Health	DHHS	International Health Statistics Cooperation	50,000
100	U Arab Emirates	Earth SCI/Terre	DOI	USGS/Abu Dhabi National Drilling Company (NDC) Ground Water Research Project	0
245 *	Uganda	Agriculture	USAID	Food Security in Africa	100,000
274	Uganda	Agriculture	USAID	Access to Land, Water and Other Natural Resources II Project	300,000
347 *	Uganda	Energy	USAID	Participate in WHO's Evaluation of Vaccine Cold Chain Effectiveness. Comparing Photovoltaics and Kerosene Systems	15,000
25 *	Uganda	Health	DHHS	International Collaboration in AIDS Research	500,000
94 *	Venezuela	Earth SCI/Terre	DOI	Understanding Earthquakes and Mitigating their Effects Training Course	2,727
101	Venezuela	Earth SCI/Terre	DOI	Oil and Gas Resource Assessment	5,000
102	Venezuela	Earth SCI/Terre	DOI	Cooperative Mineral Resource Assessment and Exploration	0
103	Venezuela	Earth SCI/Terre	DOI	Pilot Project: Application of Satellite Data for Scale-true Mapping at 1:50,000-scale in Un-mapped Areas of Venezuela	5,000
71	Venezuela	Energy	DOE	Energy Research and Development Cooperation in Conservation	0
72	Venezuela	Energy	DOE	Cooperation in Oil Recovery, Coal Technologies, Enhanced Thermal Processes: Ref: 73, 74, 75, 82, 100, 215, 238.	0
136 *	Venezuela	Environment	DOI	Research and Monitoring of Ecology and Habitat of Migratory Birds	10,000
139	Venezuela	Environment	DOI	Graduate Program in Wildlife Mangement	75,000
6 *	Venezuela	Health	DHHS	Food, Drug and Biologicals Technical Cooperations Missions	45,455
13 *	Venezuela	Health	DHHS	International Cooperation on Heart, Lung, & Blood Research	1,000,000
18 *	Venezuela	Health	DHHS	Vaccine Research and Development	300,000
24 *	Venezuela	Health	DHHS	International Collaboration in Infectious Disease Research Awards	625,000
26 *	Venezuela	Health	DHHS	International Cooperation on Allergy and Infectious Diseases	1,437,500
152	Venezuela	SCI Policy/Umbr	DOS	Agreement for Scientific and Technological Cooperation between the USA and the Government of the Republic of Venezuela	0
61	Venezuela	Techno/Industry	DOC	Exchange of Information and Scientists	0
75	West Africa	Agriculture	DOI	Sahel Water Data Network and Management III	300,000
275	West Africa	Agriculture	USAID	Economic Analysis of Grasshopper Control in the Sahel	75,000
276	West Africa	Agriculture	USAID	Africa Emergency Locust/Grasshopper Assistance (AELGA) Project	4,800,000
277	West Africa	Agriculture	USAID	RDO/C WID Baseline Data	75,000
12	West Africa	Health	DHHS	International Cooperation on Research Resources	128,571
17 *	Western Samoa	Health	DHHS	International Cooperation on Aging	300,000

Science & Technology Activities Listed by Country -- Agencies other than NSF

REF#	Country	Sector	Agency	Title of Activity	Funding
246	Worldwide	Agriculture	USAID	Pond Dynamics/Aquaculture Collaborative Research Support Program (Oregon State University).	225,000
247	Worldwide	Agriculture	USAID	Fisheries Stock Assessment Collaborative Research Support Program (University of Maryland)	233,333
248	Worldwide	Agriculture	USAID	Reproductive Studies on Milkfish (Oceanic Institute, Hawaii).	400,000
278	Worldwide	Agriculture	USAID	Sustainable Agricultural Systems	3,000,000
279	Worldwide	Agriculture	USAID	Agricultural Policy Analysis Project (APAP)	1,800,000
280	Worldwide	Agriculture	USAID	Improved Animal Vaccines through Biotechnology: Phase II, Anaplasmosis/Babesiosis	2,600,000
281	Worldwide	Agriculture	USAID	Biotechnology-Plant Tissue Culture (Cereals)	780,000
282	Worldwide	Agriculture	USAID	Agricultural Biotechnology for Sustainable Productivity	1,000,000
283	Worldwide	Agriculture	USAID	International Benchmark Sites Network for Agrotechnology Transfer (IDSNAT) - University of Hawaii	1,080,000
284	Worldwide	Agriculture	USAID	Financial Resources Management Project	500,000
285	Worldwide	Agriculture	USAID	Communication and Technology Transfer in Agriculture	500,000
286	Worldwide	Agriculture	USAID	Bean/Cowpea Collaborative Research Support Program (B/C-CRSP)	2,700,000
287	Worldwide	Agriculture	USAID	Integrated Pest Management (IPM) and Environmental Protection, including Biocontrol	600,000
288	Worldwide	Agriculture	USAID	Spring and Winter Wheat	255,000
289	Worldwide	Agriculture	USAID	Postharvest Grain Systems.	425,000
290	Worldwide	Agriculture	USAID	Soybean Utilization and Research	465,000
291	Worldwide	Agriculture	USAID	Collaborative Research on Special Constraints of the International Agricultural Research Centers	100,000
292	Worldwide	Agriculture	USAID	Research and Development of Improved Seed Production/Utilization in LDCs.	255,000
293	Worldwide	Agriculture	USAID	Technology for Soil Moisture Management	500,000
294	Worldwide	Agriculture	USAID	Soil Management Support Services (USDA/SCS).	700,000
295	Worldwide	Agriculture	USAID	Genetic Engineering of Sweet Potato for Improved Productivity	75,000
296	Worldwide	Agriculture	USAID	Developing Restriction Fragment Length Polymorphism Markers in Sweet Potato	75,000
297	Worldwide	Agriculture	USAID	Prevention of Aflatoxicosis in Domestic Animals with Hydrated Sodium/Calcium Alumino-Silicate	75,000
298	Worldwide	Agriculture	USAID	Developing Marketing Potentials for Vernonia Oil	75,000
299	Worldwide	Agriculture	USAID	Regional Cooperation	3,600,000
300	Worldwide	Agriculture	USAID	Peanut Collaborative Research Support Program	2,100,000
301	Worldwide	Agriculture	USAID	Sorghum and Millet Collaborative Research Support Program (CRSP)	3,200,000
302	Worldwide	Agriculture	USAID	Improved Biological Nitrogen Fixation (BNF) Through Biotechnology (University of Hawaii).	1,140,000
303	Worldwide	Agriculture	USAID	Aquaculture Research and Support (Auburn University).	250,000
304	Worldwide	Agriculture	USAID	Fishery Development Support Services (University of Rhode Island).	250,000
554	Worldwide	Agriculture	USDA	Handbook on Tree Species of Economic Importance	17,000
38	Worldwide	Earth SCI/Atmos	DOC	World Data Center A for Solar-Terrestrial Physics	0
39	Worldwide	Earth SCI/Atmos	DOC	World Data Center A for Meteorology	0
43	Worldwide	Earth SCI/Ocean	DOC	World Data Center A for Oceanography	0
44	Worldwide	Earth SCI/Terre	DOC	World Data Center A for Glaciology (Snow and Ice)	0
45	Worldwide	Earth SCI/Terre	DOC	World Data Center A for Marine Geology and Geophysics	0
46	Worldwide	Earth SCI/Terre	DOC	World Data Center A (WDC-A) for Solid-Earth Geophysics	0
104	Worldwide	Earth SCI/Terre	DOI	Development and Testing of the Global Telemetered Seismograph Network System	3,000,000
180	Worldwide	Earth SCI/Terre	NASA	NASA/USGS/UN (Global Resource Information Database Facility)	900,000
320	Worldwide	Education	USAID	Clearinghouse on Development Communication	100,000
330	Worldwide	Education	USAID	Improving Educational Quality	1,600,000
331	Worldwide	Education	USAID	Environmental Education and Communication (GREENCOM)	0
355	Worldwide	Energy	USAID	Global Energy Efficiency Initiative	200,000
356	Worldwide	Energy	USAID	Implement Multi-Donor Agency Electric Utility Performance Improvement Initiative	400,000
357	Worldwide	Energy	USAID	Support for Renewable Energy Information Dissemination	30,000
358	Worldwide	Energy	USAID	Environmental Manual For Power Development: Phase 2	300,000
359	Worldwide	Energy	USAID	Energy Training Program	1,800,000
370	Worldwide	Environment	USAID	Coastal Resources Management	350,000

Science & Technology Activities listed by Country -- Agencies other than NSF

REF#	Country	Sector	Agency	Title of Activity	Funding
371	Worldwide	Environment	USAID	Forestry/Fuelwood Research and Development	200,000
375	Worldwide	Environment	USAID	Forest Resources Management	450,000
376	Worldwide	Environment	USAID	Environmental and Natural Resources Policy and Training Project (EPAT)	7,850,000
377	Worldwide	Environment	USAID	Conservation of Biological Diversity	1,500,000
27	Worldwide	Health	DHHS	FDA Visiting Scientist Program	1,500,000
28	Worldwide	Health	DHHS	International Training Grants in Epidemiology related to AIDS	2,000,000
29	Worldwide	Health	DHHS	NIH Guest Researchers Program	0
30	Worldwide	Health	DHHS	Visiting Program: Fellows, Associates, Scientists	49,600,000
31	Worldwide	Health	DHHS	NIH Special Volunteers	0
32	Worldwide	Health	DHHS	International Cooperation of Diabetes and Digestive and Kidney Diseases	8,700,000
33	Worldwide	Health	DHHS	Visitors and Training Program	300,000
34	Worldwide	Health	DHHS	International Cooperation in General Medical Sciences	3,000,000
35	Worldwide	Health	DHHS	Fogarty International Scholars-in-Residence Program	800,000
36	Worldwide	Health	DHHS	International Research Fellowship Program	4,200,000
399	Worldwide	Health	USAID	Functional Implications of Malnutrition - CRSP	175,000
401	Worldwide	Health	USAID	Diarrheal Disease Research and Coordination	1,250,000
402	Worldwide	Health	USAID	Child Survival Action Program - Support	800,000
415	Worldwide	Health	USAID	Maternal and Neonatal Health and Nutrition (Mother Care)	2,000,000
416	Worldwide	Health	USAID	Women and Infant's Nutrition: A Family Focus (WIN)	2,500,000
417	Worldwide	Health	USAID	Tropical Disease Research	2,500,000
418	Worldwide	Health	USAID	Data for Decision Making	750,000
419	Worldwide	Health	USAID	Food and Nutrition Monitoring	600,000
420	Worldwide	Health	USAID	Vitamin A Nutrition	2,000,000
421	Worldwide	Health	USAID	Oral Rehydration Therapy - Health Education and Long-Term Planning	650,000
422	Worldwide	Health	USAID	Health Financing and Sustainability	1,500,000
423	Worldwide	Health	USAID	Technology for Primary Health Care II (PRITECH II)	3,000,000
424	Worldwide	Health	USAID	Communication for Child Survival (HEALTHCOM II)	1,500,000
425	Worldwide	Health	USAID	Technology and Resources for Child Health (REACH II)	2,700,000
426	Worldwide	Health	USAID	AIDS Technical Support	18,000,000
427	Worldwide	Health	USAID	Global Programme on AIDS	21,000,000
428	Worldwide	Health	USAID	Applied Research Child Survival Services (ARCSS)	1,000,000
429	Worldwide	Health	USAID	Combating Iron Deficiency	400,000
430	Worldwide	Health	USAID	Vaccine Development and Health Research	1,200,000
431	Worldwide	Health	USAID	Giardiasis in the Protein Malnourished Host	75,000
432	Worldwide	Health	USAID	Direct Destruction of Neural Vascular Endothelium by AIDS Virus Containing Macrophages	75,000
433	Worldwide	Health	USAID	Immune Effects After Pulmonary Exposure to Benzo(a) Pyrene	75,000
434	Worldwide	Health	USAID	Trypanosoma cruzi Amastigote Surface Proteins	75,000
435	Worldwide	Health	USAID	Synthesis and Evaluation of New Anti-schistosomal Agents: Polyamine-PRPP Complexes	75,000
436	Worldwide	Health	USAID	Purification of the Glycerophosphate Oxidase(GPO) and Molecular Cloning of the GPO Gene	75,000
437	Worldwide	Health	USAID	Molecular Cloning of Promastigote Stage Specific cDNA Sequences of Leishmania Major LRC-L119 and Amastigote Stage ...	75,000
438	Worldwide	Health	USAID	Schistosoma Mansoni: A Neurochemical Study of the Nervous System of Cercariae during Development into Adult Worms	75,000
439	Worldwide	Health	USAID	Characterization of Histone H Gene from Trypanosoma Brucei	75,000
440	Worldwide	Health	USAID	Biomolecules for Calcium Utilization in Promastigote and Amastigote Stages of Two Leishmania Species	75,000
450	Worldwide	Population	USAID	Demographic and Health Surveys	5,100,000
451	Worldwide	Population	USAID	Contraceptive Research, Development, Evaluation and Introduction	16,500,000
453	Worldwide	Population	USAID	Strategies for Improving Service Delivery	9,800,000
50	Worldwide	Social Sciences	DOC	Technical Assistance in Statistics and Statistical Data Processing	4,200,000
51	Worldwide	Social Sciences	DOC	ISPC Statistical Training Programs	209,000
465	Worldwide	Social Sciences	USAID	Agricultural Marketing Improvement Strategies Project (AMIS)	1,500,000
466	Worldwide	Social Sciences	USAID	Systems Approach to Regional Income and Sustainable Resource Assistance (SARSA II)	100,000
53	Worldwide	Space Sciences	DOC	GOES Geostationary and NOAA Polar-Orbiting	0

Science & Technology Activities listed by Country -- Agencies other than NSF

REF#	Country	Sector	Agency	Title of Activity	Funding
62	Worldwide	Techno/Industry	DOC	Guest Researcher Program for Collaborative Research at NIST Labs	600,000
305	Yemen	Agriculture	USAID	Agricultural Development Support	1,900,000
306	Yemen	Agriculture	USAID	Farming Practices for Productivity	44,000
332	Yemen	Education	USAID	Education Development Support	200,000
441	Yemen	Health	USAID	Population Planning	300,000
449	* Yemen	Population	USAID	Demographic and Health Surveys	533,333
347	* Zaire	Energy	USAID	Participate in WHO's Evaluation of Vaccine Cold Chain Effectiveness. Comparing Photovoltaics and Kerosene Systems	15,000
372	* Zaire	Environment	USAID	Decentralization: Finance and Management	71,429
10	* Zaire	Health	DHHS	Africa Child Survival Initiative: Combatting Childhood Communicable Diseases	700,000
18	* Zaire	Health	DHHS	Vaccine Research and Development	300,000
20	* Zaire	Health	DHHS	International Cooperation on Child Health and Human Development	454,545
25	* Zaire	Health	DHHS	International Collaboration in AIDS Research	500,000
26	* Zaire	Health	DHHS	International Cooperation on Allergy and Infectious Diseases	1,437,500
245	* Zambia	Agriculture	USAID	Food Security in Africa	100,000
172	* Zambia	Environment	EPA	USA/Southern Africa INFOTERRA Regional Companionship PGM	12,500
307	Zimbabwe	Agriculture	USAID	Zimbabwe Sunflower Project	47,000
308	Zimbabwe	Agriculture	USAID	Zimbabwe Agricultural Sector Assessment	30,000
309	Zimbabwe	Agriculture	USAID	Characterization of Goat Production Systems in Rural Zimbabwe	75,000
555	Zimbabwe	Agriculture	USDA	Compare Controlled Time Frequency Grazing Systems	30,000
319	* Zimbabwe	Education	USAID	Learning Technologies for Basic Education	325,000
172	* Zimbabwe	Environment	EPA	USA/Southern Africa INFOTERRA Regional Companionship PGM	12,500
378	sub-SAHR Africa	Environment	USAID	Natural Resources Management Support Project	4,000,000
442	sub-SAHR Africa	Health	USAID	HIV/AIDS and STD (Sexually Transmitted Diseases) Surveillance Data Base.	75,000
455	sub-SAHR Africa	Population	USAID	Population Dynamics of Sub-Saharan Africa	100,000

# **APPENDIX C**



Keyword Index -- Agencies other than NSF

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Large Fire Assessment	476	Rural Export Development	222
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# **APPENDIX D**

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1001	NSF	Chemistry	US-Argentina Cooperative Research on Energy Transfer in Molecular Interactions	Argentina	9,679	ARGENTINA	(202) 357-5000
1002	NSF	Chemistry	U.S.-Argentina Cooperative Research on In Situ Study by Synchrotron Radiation of the Structure of the Ammonia Synthesis Catalyst	Argentina	6,594	ARGENTINA	(202) 357-5000
1003	NSF	Chemistry	U.S.-Argentina Cooperative Research on Ionic Solutions and Interfaces	Argentina	8,208	ARGENTINA	(202) 357-5000
1004	NSF	Chemistry	U.S.-Brazil Cooperative Research on Reactivity at Charged Interfaces in Aqueous Media	Brazil	7,857	BRAZIL	(202) 357-5000
1005	NSF	Chemistry	U.S.-Brazil Cooperative Research on Studies of Electron-Molecule Collisions and Molecular Photoionization	Brazil	8,208	BRAZIL	(202) 357-5000
1006	NSF	Chemistry	US-Brazil Cooperative Research on Characterization of Mixed Oxide Films	Brazil	10,275	BRAZIL	(202) 357-5000
1007	NSF	Chemistry	U.S.-Brazil Cooperative Research on Seven-Membered Rings Via Nitrenium Ions	Brazil	7,688	BRAZIL	(202) 357-5000
1008	NSF	Chemistry	U.S.-Brazil Cooperative Research: Theoretical Studies of the Electronic Structure of Molecules	Brazil	5,110	BRAZIL	(202) 357-5000
1009	NSF	Chemistry	U.S.-Brazil Science & Technology Initiative: Theoretical and Computational Studies of Electron-Molecule Collisions	Brazil	4,639	REIMBURSABLE-STATE-BRAZIL	(202) 357-5000
1010	NSF	Chemistry	Cooperative Research on Photoaffinic Labelling of Compounds with Pyrene	Chile	5,875	LATIN AMERICA, SDC	(202) 357-5000
1011	NSF	Chemistry	A Chemical Study of the Chilean Flora	Chile	8,700	LATIN AMERICA, SDC	(202) 357-5000
1012	NSF	Chemistry	U.S.-Latin America Cooperative Research: Micellar and Metal-Ion Interactions with Terpenoid and Sugar Derivatives	Chile	6,394	LATIN AMERICA, SDC	(202) 357-5000
1013	NSF	Chemistry	US-China Cooperative Research: Phase Equilibrium Studies: Si <sub>3</sub> N <sub>4</sub> -Metal Oxide Systems	China	13,345	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1014	NSF	Chemistry	U.S.-China Cooperative Research: Kinetics and Mechanisms of Oxygen Atom Transfer Reactions to Metal Carbonyls	China	8,882	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1015	NSF	Chemistry	U.S.-China Cooperative Research: Preparation and Properties of Layered Organic Derivatives of Group IV Metals	China	9,442	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1016	NSF	Chemistry	U.S.-China Cooperative Research (Chemistry): Dynamic Nuclear Polarization in Carbonaceous Solids	China	13,295	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1017	NSF	Chemistry	Chemistry of Plant-Insect Interactions in Costa Rica	Costa Rica	8,770	LATIN AMERICA, SDC	(202) 357-5000
1018	NSF	Chemistry	Mechanisms of Catalytic Copper-Dioxygen Reactions U.S.-Egypt Cooperative Research: Science in Developing Countries	Egypt	10,000	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1019	NSF	Chemistry	A New Strategy for Mild, Continuous Solution and Solid Phase Peptide Synthesis (U.S.-Egypt Cooperative Science: Science in Developing Countries)	Egypt	9,999	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1020	NSF	Chemistry	Study of Fluorine Compounds, Award in Indian Currency	India	18,604	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1021	NSF	Chemistry	Study of Fluorine Compounds, Award in U.S. and Indian Currencies	India	2,794	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1022	NSF	Chemistry	A Chemical Examination of Himalyan Aconitum Species, A Cooperative Project at the University of Georgia, Award in U.S. and Indian Currencies	India	5,970	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1023	NSF	Chemistry	US-Malaysia Cooperative Research: Elemental Analysis of Geological Materials by Glow Discharge Methods	Malaysia	9,750	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1024	NSF	Chemistry	U.S.-Mexico Cooperative Research: Chalcogenide Reagents for the Preparation of Infrared Sensitive Materials	Mexico	7,270	MEXICO	(202) 357-5000
1025	NSF	Chemistry	U.S.-Mexico Cooperative Research on Silicon and Germanium Metal Complexes	Mexico	6,785	MEXICO	(202) 357-5000
1026	NSF	Chemistry	U.S.-Mexico Collaborative Research: Alignment Measured Through Fluorescence Detection	Mexico	3,680	MEXICO	(202) 357-5000
1027	NSF	Chemistry	U.S.-Mexico Cooperative Research: Hydrolysis of Phosphate Esters of Theoretical Study	Mexico	8,908	MEXICO	(202) 357-5000
1028	NSF	Chemistry	Solid State Structural Chemistry of Inorganic Phosphates - U.S. - Morocco	Morocco	9,548	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1029	NSF	Chemistry	US-Swaziland Cooperative Research on Synthetic Routes to Thiophospholipids	Swaziland	6,670	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1030	NSF	Chemistry	Theoretical Study of Boron Anionic Heterocycles Derived from Hydroxamic Acids	Uruguay	8,025	LATIN AMERICA, SDC	(202) 357-5000
1031	NSF	Earth SCI/Atmos	Solar Radiation in the High Latitude Southern Hemisphere	Argentina	79,355	BIOLOGICAL SCIENCES(US ANTARC)	(202) 357-5000
1032	NSF	Earth SCI/Atmos	Mesoscale Cyclone Dynamics Around Antarctica	Chile	57,018	OCEANOGRAPHY (US ANTARCTIC RES	(202) 357-5000
1033	NSF	Earth SCI/Atmos	China and America Air/Sea Experiments	China	100,000	ATMOSPHERIC CHEMISTRY	(202) 357-5000
1034	NSF	Earth SCI/Atmos	U.S.- China Cooperative Research (Climate): Cryosphere-Climate Interactions	China	49,987	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1035	NSF	Earth SCI/Atmos	Lanthanide Optical Spectroscopy	China	15,232	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1036	NSF	Earth SCI/Atmos	A Cooperative Paleoclimatic Study of the Guliya Ice Cap, China: Relationship to Global Climate Variability	China	121,800	CLIMATE DYNAMICS PROGRAM	(202) 357-5000
1037	NSF	Earth SCI/Atmos	Collaborative Research: Climatic History of the Western Amazon Basin and the Equatorial Andes Since 18k	Ecuador	41,035	CLIMATE DYNAMICS PROGRAM	(202) 357-5000
1038	NSF	Earth SCI/Atmos	A High Volume Particle Spectrometer for Atmospheric Research	Malaysia	124,319	SMALL BUSINESS PHASE II	(202) 357-5000
1039	NSF	Earth SCI/Atmos	U.S.- Venezuela Cooperative Research on Climatology	Venezuela	8,358	VENEZUELA	(202) 357-5000
1040	NSF	Earth SCI/Ocean	High Resolution Study of the Dynamics of the Confluence Region	Argentina	247,000	PHYSICAL OCEANOGRAPHY	(202) 357-5000
1041	NSF	Earth SCI/Ocean	REU: The ACC and Deep Western Boundary Currents in the Southwest Atlantic: An Analysis of Field Observations	Argentina	145,447	PHYSICAL OCEANOGRAPHY	(202) 357-5000
1042	NSF	Earth SCI/Ocean	U.S.-Argentina Cooperative Research: An International Effort to Study the Southwestern Atlantic Ocean	Argentina	7,252	ARGENTINA	(202) 357-5000
1043	NSF	Earth SCI/Ocean	Organized Island Wakes and the Retention and Recruitment of Larval Reef Fish	Barbados	135,092	PHYSICAL OCEANOGRAPHY	(202) 357-5000
1044	NSF	Earth SCI/Ocean	The North Brazil Current: Dynamics and Role in the Equatorial Heat and Mass Balance	Brazil	89,458	PHYSICAL OCEANOGRAPHY	(202) 357-5000
1045	NSF	Earth SCI/Ocean	Diagenetic Processes and Authigenic Mineral Formation in Amazon Shelf Sediments	Brazil	123,817	CHEMICAL OCEANOGRAPHY	(202) 357-5000
1046	NSF	Earth SCI/Ocean	Physical Oceanography of the Amazon Frontal Zone	Brazil	294,927	PHYSICAL OCEANOGRAPHY	(202) 357-5000
1047	NSF	Earth SCI/Ocean	Evaluating the Effects of High Particulate Fluxes on Chemical Processes Occurring at the Amazon River/Ocean Boundary	Brazil	14,248	CHEMICAL OCEANOGRAPHY	(202) 357-5000
1048	NSF	Earth SCI/Ocean	Evaluating the Effects of High Particulate Fluxes on Chemical Processes Occurring at the Amazon River/Ocean Boundary	Brazil	15,459	CHEMICAL OCEANOGRAPHY	(202) 357-5000

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1049	NSF	Earth SCI/Ocean	Evaluating the Effects of High Particulate Fluxes on Chemical Processes Occurring at the Amazon River/Ocean Boundary	Brazil	17,459	CHEMICAL OCEANOGRAPHY	(202) 357-5000
1050	NSF	Earth SCI/Ocean	U.S.-Brazil Cooperative Research on Dynamic Characteristics of Coastal Lagoons: Lagoa de Araruama, Rio de Janeiro	Brazil	8,400	BRAZIL	(202) 357-5000
1051	NSF	Earth SCI/Ocean	Lagrangian Floats for the WOCE Deep Basin Experiment	Brazil	535,671	PHYSICAL OCEANOGRAPHY	(202) 357-5000
1052	NSF	Earth SCI/Ocean	Recording of Data and Sorting of Collections from Polar Regions	Chile	160,545	BIOLOGICAL SCIENCES(US ANTARC)	(202) 357-5000
1053	NSF	Earth SCI/Ocean	Mathematical Models of Foraging Seabirds	Chile	63,998	BIOLOGICAL SCIENCES(US ANTARC)	(202) 357-5000
1054	NSF	Earth SCI/Ocean	The Bahia Paraiso Oil Spill: Impact on a Southern Seabird Community	Chile	47,834	BIOLOGICAL SCIENCES(US ANTARC)	(202) 357-5000
1055	NSF	Earth SCI/Ocean	Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment	Chile	429,388	BIOLOGICAL SCIENCES(US ANTARC)	(202) 357-5000
1056	NSF	Earth SCI/Ocean	Comparative Demography and Foraging Behavior of Pygoscelis Penguins	Chile	94,756	PRINCIPAL INVESTIGATOR TRANSFER	(202) 357-5000
1057	NSF	Earth SCI/Ocean	Hydrographic Observations for a Western Equatorial Pacific Ocean Circulation Study	China	93,500	PHYSICAL OCEANOGRAPHY	(202) 357-5000
1058	NSF	Earth SCI/Ocean	Low-Latitude Western Boundary Currents in the Pacific Ocean	Indonesia	116,483	PHYSICAL OCEANOGRAPHY	(202) 357-5000
1059	NSF	Earth SCI/Ocean	A Theoretical Investigation of the General Circulation, Deep Convection and Mesoscale Processes of the Mediterranean Sea	Israel	126,102	PHYSICAL OCEANOGRAPHY	(202) 357-5000
1060	NSF	Earth SCI/Ocean	A Study of Seasonal and Interannual Variations of Synoptic Oscillations in the Central Equatorial Pacific	Kiribati	52,768	PHYSICAL OCEANOGRAPHY	(202) 357-5000
1061	NSF	Earth SCI/Ocean	REU: Low-Latitude Western Boundary Currents in the Pacific Ocean	Multicountry	258,709	PHYSICAL OCEANOGRAPHY	(202) 357-5000
1062	NSF	Earth SCI/Ocean	REU: Evaluating the Effects of High Particulate Fluxes on Chemical Processes Occurring at the Amazon River/Ocean Boundary	Multicountry	78,003	CHEMICAL OCEANOGRAPHY	(202) 357-5000
1063	NSF	Earth SCI/Ocean	Evaluating the Effects of High Particulate Fluxes on Chemical Processes Occurring at the Amazon River/Ocean Boundary	Multicountry	41,137	CHEMICAL OCEANOGRAPHY	(202) 357-5000
1064	NSF	Earth SCI/Ocean	U.S. Philippines Cooperative Research on Development of a Predictive Capacity for the Occurrence of Large Amplitude Coastal Seiches	Philippines	10,198	SCIENCE IN DEVELOPING COUNTRIES	(202) 357-5000
1065	NSF	Earth SCI/Ocean	U.S. Thailand Cooperative Research: Feeding Deterrence of Herbivorous Coral Reef Fishes as an Indicator of Chemical Defenses of Tropical Marine Algae	Thailand	12,247	SCIENCE IN DEVELOPING COUNTRIES	(202) 357-5000
1066	NSF	Earth SCI/Ocean	U.S.-Venezuela Cooperative Research: Strain Selection and Cell Isolation of Commercially Important Venezuelan Seaweeds for Mariculture	Venezuela	6,116	VENEZUELA	(202) 357-5000
1067	NSF	Earth SCI/Terre	U.S.-Argentina Cooperative Research on Grass/Shrub Interactions in Two Temperate Semiarid Regions	Argentina	8,591	ARGENTINA	(202) 357-5000
1068	NSF	Earth SCI/Terre	Cretaceous and Tertiary Strata of the James Ross Basin and the Evolution of the Antarctic Peninsula	Argentina	38,372	EARTH SCIENCES(US ANTARCTIC)	(202) 357-5000
1069	NSF	Earth SCI/Terre	US-Argentina Cooperative Research on Seismological and Geological Studies of Central Andes of South America	Argentina	6,242	ARGENTINA	(202) 357-5000
1070	NSF	Earth SCI/Terre	U.S.-Argentina Cooperative Research on Conjugate Margins of Argentina and Antarctica	Argentina	7,102	ARGENTINA	(202) 357-5000

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1071	NSF	Earth SCI/Terre	U.S. - Argentina Cooperative Research on Permian Plants from Argentina and Antarctica: Distribution in Time and Space	Argentina	8,520	ARGENTINA	(202) 357-5000
1072	NSF	Earth SCI/Terre	Sediment Accumulation and Strata Formation on the Bengal Shelf	Bangladesh	58,906	MARINE GEOLOGY AND GEOPHYSICS	(202) 357-5000
1073	NSF	Earth SCI/Terre	Cenozoic Chronology and Vertebrate Faunas of Bolivia	Bolivia	22,550	STRATIGRAPHY & PALEONTOLOGY	(202) 357-5000
1074	NSF	Earth SCI/Terre	Petrogenetic Processes and Sources of Volcanic Rocks in the Central Andes: Constraints from Mafic Monogenetic Centers in Bolivia (Collaborative Research)	Bolivia	41,300	VOLCANOLOGY & MANTLE GEOCHEMIS	(202) 357-5000
1075	NSF	Earth SCI/Terre	Petrogenetic Processes and Sources of Volcanic Rocks in the Central Andes: Constraints from Mafic Monogenetic Centers in Bolivia (Collaborative Research)	Bolivia	11,478	VOLCANOLOGY & MANTLE GEOCHEMIS	(202) 357-5000
1076	NSF	Earth SCI/Terre	US-Brazil Cooperative Research on The Cause of Erosion and Deposition Cycles in Humid Landscapes: An Integrated Study of Process and Stratigraphy in Southeastern Brazil	Brazil	10,000	BRAZIL	(202) 357-5000
1077	NSF	Earth SCI/Terre	Geochemistry, Petrology and Geologic Setting of Selected Precambrian Banded Iron-Formations in the Quadrilatero Ferrifero, Minas Gerais, Brazil	Brazil	59,800	PETROLOGY AND GEOCHEMISTRY	(202) 357-5000
1078	NSF	Earth SCI/Terre	The Environmental History of the Amazon Rain Forest	Brazil	120,000	ECOLOGY	(202) 357-5000
1079	NSF	Earth SCI/Terre	COLLABORATIVE RESEARCH: The Location of Yucatan in the Late Paleozoic-Early Mesozoic	Central America	14,789	TECTONICS	(202) 357-5000
1080	NSF	Earth SCI/Terre	COLLABORATIVE RESEARCH: The Location of Yucatan in the Late Paleozoic- Early Mesozoic	Central America	24,564	TECTONICS	(202) 357-5000
1081	NSF	Earth SCI/Terre	A Geophysical Survey of the Interaction between the Chile Ridge and Chile Trench	Chile	245,805	OCEAN DRILLING PROGRAM	(202) 357-5000
1082	NSF	Earth SCI/Terre	U.S.-Chile Cooperative Research in Crustal Deformation, Part I	Chile	9,584	SCIENCE IN DEVELOPING COUNTRIES	(202) 357-5000
1083	NSF	Earth SCI/Terre	A Collaborative Study of the Origins of Compositional and Mineralogical Zonation in La Gloria Pluton, Central Chilean Andes	Chile	7,328	LATIN AMERICA, SDC	(202) 357-5000
1084	NSF	Earth SCI/Terre	Collaborative Study of Pliocene Andean Volcanism in the Vicinity of Santiago, Chile	Chile	5,950	LATIN AMERICA, SDC	(202) 357-5000
1085	NSF	Earth SCI/Terre	Training Program in Biosocial Adaptation: Assessment of Paleonutrition Techniques	Chile	41,400	CROSS-DIRECTORATE PROGRAMS	(202) 357-5000
1086	NSF	Earth SCI/Terre	Role of Predation and Plant-Small Mammal Interactions in the Chilean Mediterranean Scrub Zone.	Chile	76,463	ECOLOGY	(202) 357-5000
1087	NSF	Earth SCI/Terre	Paleomagnetic Study of the Post-Cretaceous Displacement History of the Liquine-Ofqui Fault, Southern Chile	Chile	7,946	LATIN AMERICA, SDC	(202) 357-5000
1088	NSF	Earth SCI/Terre	U.S.-China Cooperative Research: Upper Mantle Stresses Beneath Eastern China	China	6,240	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1089	NSF	Earth SCI/Terre	U.S.-China Cooperative Research: Plume-related Basalts from Hainan Island and Leizhou Peninsula, South China	China	18,972	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1090	NSF	Earth SCI/Terre	Compressional and Extensional Tectonics of the Yunmeng Mountains, Huairou County, Northern China	China	42,489	TECTONICS	(202) 357-5000
1091	NSF	Earth SCI/Terre	U.S.-China Cooperative Research (Geology): Volcanology of Changpaishan, Jilin Province	China	29,597	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000

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1092	NSF	Earth SCI/Terre	U.S.-China Cooperative Research: Geochemistry and Origin of China Archean Granulites in Northeastern China		30,648	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1093	NSF	Earth SCI/Terre	U.S.-China Cooperative Research (Geol.): Geochemical Studies of the Massive Sulfide Gold Deposits of the Tongling District, Anhui, China	China	11,940	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1094	NSF	Earth SCI/Terre	U.S.-China Cooperative Research: Xinjiang Magnetotelluric Transect	China	15,000	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1095	NSF	Earth SCI/Terre	U.S-China Cooperative Research: The Use of Integrated Models To Manage Marginal Ecosystems in Gansu, China	China	10,628	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1096	NSF	Earth SCI/Terre	U.S-China Cooperative Research: Permian Ammonoid Biofacies and Biostratigraphy of China and North America	China	18,770	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1097	NSF	Earth SCI/Terre	U.S.-China Cooperative Research: Search for and Study of Impact Structures in China	China	8,690	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1098	NSF	Earth SCI/Terre	US China Cooperative Research (Biology): Frankia Diversity and Symbiotic Performance	China	10,147	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1099	NSF	Earth SCI/Terre	U.S.-China Cooperative Research: Transient Electromagnetic Research	China	8,865	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1100	NSF	Earth SCI/Terre	U.S.-China Cooperative Science Research: High Energy Heavy Ion Research	China	8,030	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1101	NSF	Earth SCI/Terre	U.S.-China Cooperative Research (Geology): Analysis of the Tectonic Origin and Stratigraphy of the Bohai Basin	China	15,432	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1102	NSF	Earth SCI/Terre	United States-China Scientific Cooperative Project: A Petrotectonic Study of Precambrian Blueschist and Eclogite Belts in Central China	China	71,752	TECTONICS	(202) 357-5000
1103	NSF	Earth SCI/Terre	Paleozoic Paleogeography of China	China	49,824	GEOLOGY & PALEONTOLOGY	(202) 357-5000
1104	NSF	Earth SCI/Terre	Suspended Matter Transport in the Huanghe (Yellow River) Estuary	China	75,936	EARTH SCIENCES (ARCTIC RES)	(202) 357-5000
1105	NSF	Earth SCI/Terre	U.S.-China Cooperative Research (Physics): Multi-Particle Correlations in Relativistic Nucleus-Nucleus Collisions	China	12,908	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1106	NSF	Earth SCI/Terre	Collaborative Research: Lithospheric Structure of the Tibetan Plateau	China	20,000	GEOPHYSICS	(202) 357-5000
1107	NSF	Earth SCI/Terre	Collaborative Research: Lithospheric Structure of the Tibetan Plateau	China	20,000	GEOPHYSICS	(202) 357-5000
1108	NSF	Earth SCI/Terre	Great Bahama Bank of Guizhou: History and Facies Geometry	China	45,550	GEOLOGY & PALEONTOLOGY	(202) 357-5000
1109	NSF	Earth SCI/Terre	U.S.-China Cooperative Research (Geology): Geological Study of the Tonghai-Jianshui-Kunming Area, Yunnan	China	12,843	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1110	NSF	Earth SCI/Terre	Exploratory Research for U.S.-U.S.S.R. Cooperation in Ice Core Research in the Tien-Shan and Pamir Ranges	China	31,830	GLACIOLOGY (ARCTIC RESEARCH)	(202) 357-5000
1111	NSF	Earth SCI/Terre	U.S.-China Cooperative Research (Physics): Search for Gravitational Radiation	China	16,212	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1112	NSF	Earth SCI/Terre	Partial Support of the NSF/USGS Joint Hosting of the PRC Delegation, May 26 - June 10, 1990	China	10,000	GEOPHYSICS	(202) 357-5000
1113	NSF	Earth SCI/Terre	Geology and Recent Volcanology of Nevado del Ruiz Volcano, Colombia	Colombia	25,300	PETROLOGY AND GEOCHEMISTRY	(202) 357-5000

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1114	NSF	Earth SCI/Terre	The Recent Geological Evolution and Current Activity of Galeras Volcano, Narino Colombia (South America)	Colombia	8,900	LATIN AMERICA, SDC	(202) 357-5000
1115	NSF	Earth SCI/Terre	Microevolution by Natural Selection in Disturbed Tropical Habitats	Colombia	13,700	LATIN AMERICA, SDC	(202) 357-5000
1116	NSF	Earth SCI/Terre	Biological Control of Soil Charge Properties and Nutrient Retention in Variable Charge Soils of the Humid Tropics	Costa Rica	225,000	ECOSYSTEMS STUDIES	(202) 357-5000
1117	NSF	Earth SCI/Terre	Geomorphic Evidence for Crustal Uplift Adjacent to a Subducting Aseismic Ridge, Pacific Coast of Costa Rica	Costa Rica	10,440	LATIN AMERICA, SDC	(202) 357-5000
1118	NSF	Earth SCI/Terre	CRB: Plant Longevity and Life-form Diversity in Reconstructed Tropical Ecosystems	Costa Rica	130,000	ECOSYSTEMS STUDIES	(202) 357-5000
1119	NSF	Earth SCI/Terre	Collaborative Research: Archaeomagnetic Investigations of Geomagnetic Field Behavior in North and South America	Ecuador	45,742	GEOPHYSICS	(202) 357-5000
1120	NSF	Earth SCI/Terre	Earthquake Studies at Aswan Reservoir, Egypt	Egypt	11,658	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1121	NSF	Earth SCI/Terre	Production of Lithologic and Structural Maps from Digital Landsat Thematic Mapper Data Over the Eastern Desert, in Egypt	Egypt	20,000	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1122	NSF	Earth SCI/Terre	COLLABORATIVE RESEARCH: Uplift History of the Red Sea Margin in Egypt and Sudan from Fission Track Analysis and Its Implications for Rift Propagation	Egypt	52,499	TECTONICS	(202) 357-5000
1123	NSF	Earth SCI/Terre	Collaborative Paleomagnetic Research in Santa Maria Volcano, Guatemala	Guatemala	8,973	LATIN AMERICA, SDC	(202) 357-5000
1124	NSF	Earth SCI/Terre	Field Studies in India: Mafic Rocks and Mantle Xenoliths, Award in Indian Currency	India	5,625	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1125	NSF	Earth SCI/Terre	Plumage Patterns and Speciation in the Avian Genus Phylloscopus, Award in Indian Currency	India	12,453	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1126	NSF	Earth SCI/Terre	Isotopic and Chemical Studies of Mafic Rocks from India	India	4,500	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1127	NSF	Earth SCI/Terre	Project Crumansonata-Studies of Mafic Dike Swarms and Interplate Lineament Evolution, India, Award in U.S. and Indian Currencies	India	54,428	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1128	NSF	Earth SCI/Terre	Cooperative Colony Foundation in Desert Ants	India	61,423	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1129	NSF	Earth SCI/Terre	Collaborative Research: Geodetic Investigations of Oblique Plate Convergence in Sumatra	India	15,182	GEOPHYSICS	(202) 357-5000
1130	NSF	Earth SCI/Terre	Crustal Genesis and Mineralization in the Eastern Dharwar Craton, South India, Award in Indian Currency	India	25,020	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1131	NSF	Earth SCI/Terre	Crustal Genesis and Mineralization in the Eastern Dharwar Craton, South India, Award in U.S. and Indian Currencies	India	23,300	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1132	NSF	Earth SCI/Terre	Collaborative Research: Geodetic Investigations of Oblique Plate Convergence in Sumatra	Indonesia	48,160	GEOPHYSICS	(202) 357-5000
1133	NSF	Earth SCI/Terre	Materials Science Approach to Volcanic Eruption Prediction	Indonesia	87,566	NAT & MAN-MADE HAZARD MITIGATI	(202) 357-5000
1134	NSF	Earth SCI/Terre	U.S.-Indonesia Cooperative Research: Geodetic Investigation of Oblique Plate Convergence in Sumatra	Indonesia	12,500	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1135	NSF	Earth SCI/Terre	Characterization and Detection of Mantle Discontinuities (A Collaborative Effort)	Israel	15,800	GEOPHYSICS	(202) 357-5000

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1136	NSF	Earth SCI/Terre	Collaborative Research: Ecology of Migratory Passerine Birds on Breeding and Wintering Areas - Demographic and Experimental Studies	Jamaica	101,000	ECOLOGY	(202) 357-5000
1137	NSF	Earth SCI/Terre	REU: Collaborative Research: Ecology of Migratory Passerine Birds on Breeding and Wintering Areas - Demographic and Experimental Studies	Jamaica	61,600	ECOLOGY	(202) 357-5000
1138	NSF	Earth SCI/Terre	Collaborative Research on the Persistence of a Pastoral Ecosystem	Kenya	411,000	ECOSYSTEMS STUDIES	(202) 357-5000
1139	NSF	Earth SCI/Terre	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya Rift International Project - An International Cooperative Experiment Explosion Studies	Kenya	38,341	CONTINENTAL DYNAMICS PROGRAM	(202) 357-5000
1140	NSF	Earth SCI/Terre	Resource Distribution and Population Monitoring	Kenya	99,112	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1141	NSF	Earth SCI/Terre	1989-1990 Kenya Rift International Seismic Project (KRISP)	Kenya	37,125	CONTINENTAL DYNAMICS PROGRAM	(202) 357-5000
1142	NSF	Earth SCI/Terre	SGER: Emergency Studies of Species Extinctions and Limnological Changes in Lake Victoria	Kenya	26,667	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1143	NSF	Earth SCI/Terre	Periplatform Environments and Sediments of the Maldive	Maldives	56,451	MARINE GEOLOGY AND GEOPHYSICS	(202) 357-5000
1144	NSF	Earth SCI/Terre	U.S.-Mexico Collaborative Research: Study of Benioff Zone Geometry and Stresses at the Tehauntepec, Mexico Transition Zone along the Middle America Trench	Mexico	13,434	MEXICO	(202) 357-5000
1145	NSF	Earth SCI/Terre	Collaborative Research: mtDNA and the Evolution of Fishes	Mexico	33,445	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1146	NSF	Earth SCI/Terre	U.S. - Mexico Cooperative Research: Volcanic Risk Evaluation of the Colima and Popocatepetl Volcanoes	Mexico	10,125	MEXICO	(202) 357-5000
1147	NSF	Earth SCI/Terre	US-Mexico Cooperative Research: Geomagnetic Paleointensity Determinations on Historic Lava Flows	Mexico	5,417	MEXICO	(202) 357-5000
1148	NSF	Earth SCI/Terre	Collaborative Research: Asymmetrical Gene Flow Between European and African Honey Bee Populations	Mexico	91,000	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1149	NSF	Earth SCI/Terre	Collaborative Research: Integrated Field and Laboratory Studies of Foraminiferal Taphonomy in Quaternary Carbonate and Siliclastic Depositional Environments	Mexico	46,392	GEOLOGY & PALEONTOLOGY	(202) 357-5000
1150	NSF	Earth SCI/Terre	Collaborative Research: Integrated Field and Laboratory Studies of Foraminiferal Taphonomy in Quaternary Carbonate and Siliclastic Depositional Environments	Mexico	43,616	GEOLOGY & PALEONTOLOGY	(202) 357-5000
1151	NSF	Earth SCI/Terre	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya Rift International Project Seismic Array Studies	Multicountry	73,300	CONTINENTAL DYNAMICS PROGRAM	(202) 357-5000
1152	NSF	Earth SCI/Terre	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya Rift International Seismic Project - An International Cooperative Experiment: Seismic Array Study	Multicountry	73,192	CONTINENTAL DYNAMICS PROGRAM	(202) 357-5000
1153	NSF	Earth SCI/Terre	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya Rift International Seismic Project, An International Cooperative Experiment	Multicountry	97,213	CONTINENTAL DYNAMICS PROGRAM	(202) 357-5000
1154	NSF	Earth SCI/Terre	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya International Seismic Project - An International Cooperative Experiment	Multicountry	43,709	CONTINENTAL DYNAMICS PROGRAM	(202) 357-5000
1155	NSF	Earth SCI/Terre	CRB/RUI: Population Biology of Tropical Rain Forest Trees	Multicountry	101,900	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1156	NSF	Earth SCI/Terre	Collaborative Research: Soil Organic Matter in the Tropics: Determinants and Consequences	Multicountry	150,000	ECOSYSTEMS STUDIES	(202) 357-5000

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1157	NSF	Earth SCI/Terre	Collaborative Research: Soil Organic Matter in the Tropics: Determinants and Consequences	Multicountry	80,000	ECOSYSTEMS STUDIES	(202) 357-5000
1158	NSF	Earth SCI/Terre	COLLABORATIVE RESEARCH: Lateral Variations in the Timing and Nature of Metamorphism Associated with a Major Terrane Boundary in the NW Himalaya	Pakistan	29,702	TECTONICS	(202) 357-5000
1159	NSF	Earth SCI/Terre	COLLABORATIVE RESEARCH: Lateral Variations in the Timing and Nature of Metamorphism Associated With A Major Terrane Boundary in the NW Himalaya	Pakistan	20,886	TECTONICS	(202) 357-5000
1160	NSF	Earth SCI/Terre	Petrology and Mineralization Potential of the Chilas, Jijal, and Related Segements of the Basal Ultramafic-Mafic Cumulate Complex, Kohistan Accreted Island Arc Terrane	Pakistan	61,209	TECTONICS	(202) 357-5000
1161	NSF	Earth SCI/Terre	Foodweb Dynamics of Mangrove Habitats in Pakistan	Pakistan	134,534	PAKISTAN (COOPERATIVE SCIENCE)	(202) 357-5000
1162	NSF	Earth SCI/Terre	COLLABORATIVE RESEARCH: Precise and Detailed Uplift History of an Orogen: Quantitative Constraints from 40 Ar/39 Ar and Fission-Track Thermochronometry	Pakistan	31,534	TECTONICS	(202) 357-5000
1163	NSF	Earth SCI/Terre	COLLABORATIVE RESEARCH: Precise and Detailed Uplift History of an Orogen: Quantitative Constraints from 40Ar/39Ar and Fission-Track Thermochronology	Pakistan	19,251	TECTONICS	(202) 357-5000
1164	NSF	Earth SCI/Terre	Collaborative Research: Consequences of Leaf Lifetime for Photosynthetic Physiology, Secondary Metabolism, and Anatomy in Tropical Plants	Panama	63,119	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1165	NSF	Earth SCI/Terre	Evidence for a Temperate Climatic Belt in the Southern Hemisphere of the Carboniferous Period	Peru	37,546	GEOLOGY & PALEONTOLOGY	(202) 357-5000
1166	NSF	Earth SCI/Terre	RU: Collaborative Research: Metamorphism and Deformation Associated with Late Cenozoic Strike-Slip Faulting in the Philippines	Philippines	18,511	TECTONICS	(202) 357-5000
1167	NSF	Earth SCI/Terre	Collabrative Research: Metamorphism and Deformation Associated with Late Cenozoic Strike-Slip Faulting in the Philippines	Philippines	19,626	TECTONICS	(202) 357-5000
1168	NSF	Earth SCI/Terre	Evolution of Modern Intra-Arc Sedimentary Basins in the Central Philippine Archipelago	Philippines	61,287	MARINE GEOLOGY AND GEOPHYSICS	(202) 357-5000
1169	NSF	Earth SCI/Terre	U.S.-Philippines Cooperative Research: Controlling Biological Deterioration of Philippines Woods Species by Application of Volatile Fungicides	Philippines	9,025	EAST ASIA, OTHER	(202) 357-5000
1170	NSF	Earth SCI/Terre	Collaborative Research: Geochemistry of Arc Magmas from Luzon and Marinduque Islands, Philippines.	Philippines	23,745	PETROLOGY AND GEOCHEMISTRY	(202) 357-5000
1171	NSF	Earth SCI/Terre	Crustal Evolution of North Luzon: Transition from Island Arcs to Micro-Continent	Philippines	37,474	PETROLOGY AND GEOCHEMISTRY	(202) 357-5000
1172	NSF	Earth SCI/Terre	U.S.-Senegal Cooperative Research: Early Cambrian Small Shelly Fossils Stratigraphy & Paleoenvironments in the Southwest Taoudeni Basin, West Africa	Senegal	6,985	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1173	NSF	Earth SCI/Terre	Compilations of Topographic, Magnetic and Geophysical Data from the Indian Ocean	South Africa	37,199	MARINE GEOLOGY AND GEOPHYSICS	(202) 357-5000
1174	NSF	Earth SCI/Terre	Jurassic Paleomagnetism from Africa: Implications for Intraplate Deformation and the South Atlantic Fit	South Africa	27,916	TECTONICS	(202) 357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1175	NSF	Earth SCI/Terre	Collaborative Research: Archaeomagnetic Investigations of Geomagnetic Field Behavior in North and South America	South America	22,335	GEOPHYSICS	(202) 357-5000
1176	NSF	Earth SCI/Terre	Long Term Studies of African Lions	Tanzania	107,587	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1177	NSF	Earth SCI/Terre	Mechanisms and Evolution of Reproductive Phenomena in a Cooperatively - Breeding Mammal	Tanzania	77,520	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1178	NSF	Earth SCI/Terre	U.S.-Thailand Cooperative Research on Sediment Trapping by Brackish Water Ponds in Thailand	Thailand	7,385	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1179	NSF	Earth SCI/Terre	Structural Evolution of the Northern Range of Trinidad	Trinidad/Tobago	8,725	LATIN AMERICA, SDC	(202) 357-5000
1180	NSF	Earth SCI/Terre	Genetic Structure in Cooperative Societies	Venezuela	96,020	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1181	NSF	Earth SCI/Terre	Pan American Congress on Conservation of Wildlife through Education	Venezuela	50,000	SCIENCE & MATH EDUCATION NETWR	(202) 357-5000
1182	NSF	Engineering	U.S.-Argentina Cooperative Research on the Polymerization of Olefins from the Gas Phase	Argentina	7,267	ARGENTINA	(202) 357-5000
1183	NSF	Engineering	U.S.-Argentina Cooperative Research on Joint Research on Basic Properties of Superconductors	Argentina	8,882	ARGENTINA	(202) 357-5000
1184	NSF	Engineering	US-Argentina Cooperative Research: Identification and Control of Systems with Memory	Argentina	7,014	ARGENTINA	(202) 357-5000
1185	NSF	Engineering	U.S.-Argentina Cooperative Research: Synthesis and Characterization of Tailor-Made Copolymers	Argentina	7,868	ARGENTINA	(202) 357-5000
1186	NSF	Engineering	U.S.-Argentina Cooperative Research: Basic Thermal Design Heat Exchangers	Argentina	6,652	ARGENTINA	(202) 357-5000
1187	NSF	Engineering	U.S.-Argentina Cooperative Research: Theoretical Models for Radiation-Enhanced Diffusion During Ion Implantation	Argentina	9,179	ARGENTINA	(202) 357-5000
1188	NSF	Engineering	U.S.-Argentina Cooperative Research on Magnetic Properties of High Temperature Superconductors	Argentina	9,057	ARGENTINA	(202) 357-5000
1189	NSF	Engineering	Metal-Support Effects in Platinum/Zeolite-L Catalysts	Argentina	106,177	KINETICS & CATALYSIS	(202) 357-5000
1190	NSF	Engineering	U.S. - Argentina Cooperative Research: Studies on the Robust Control of Chemical Processes	Argentina	6,858	ARGENTINA	(202) 357-5000
1191	NSF	Engineering	U.S.-Brazil Cooperative Research in Detection of Weakly Magnetic Fields and Fluctuations	Brazil	8,422	BRAZIL	(202) 357-5000
1192	NSF	Engineering	U.S.-Brazil Cooperative Research in Source Coding and Digital Phase Modulation	Brazil	7,038	BRAZIL	(202) 357-5000
1193	NSF	Engineering	U.S.-Brazil Cooperative Research on Interpenetrating Polymer Network Formation.	Brazil	5,320	BRAZIL	(202) 357-5000
1194	NSF	Engineering	US-Brazil Cooperative Research on A Modeling Environment for Performance/Reliability Analysis of Distributed Systems	Brazil	9,535	BRAZIL	(202) 357-5000
1195	NSF	Engineering	U.S.-Brazil Cooperative Science Research in the Study of Amorphous Hydrogenated Germanium	Brazil	9,060	BRAZIL	(202) 357-5000
1196	NSF	Engineering	U.S.-Brazil Cooperative Research on Internal Oxidation of Nb Alloys Containing Hf, Zr, and Ti	Brazil	6,684	BRAZIL	(202) 357-5000
1197	NSF	Engineering	Water Resources and Environmental Engineering	Brazil	49,693	NAT & MAN-MADE HAZARD MITIGATI	(202) 357-5000
1198	NSF	Engineering	The Second Pan American Congress of Applied Mechanics (PACAM II): Valparaiso, Chile, January 2-5, 1991	Chile	20,250	LATIN AMERICA, SDC	(202) 357-5000
1199	NSF	Engineering	U.S.-China Cooperative Research: Optimization of Real-Time Hydrothermal System Operation	China	24,832	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1200	NSF	Engineering	Effect of Curing Regimens on Concrete Durability	China	116,639	SYSTEMS ENGIN FOR LARGE STRUCT (202)	357-5000
1201	NSF	Engineering	U.S-China Cooperative Research (Materials): Combined High Resolution and Analytical Electron Microscopy of Phases Exhibiting Five-Fold Symmetry	China	11,194	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1202	NSF	Engineering	U.S.-China Cooperative Research: Optimal Control Studies for Steamflooding	China	27,923	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1203	NSF	Engineering	The Committee on Earthquake Engineering	China	136,000	EARTHQUAKE SYSTEMS INTEGRATION (202)	357-5000
1204	NSF	Engineering	US-China Cooperative Research (Eng.): Rheological Fracture and its Application to Concrete	China	10,856	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1205	NSF	Engineering	Seismic Hazard Assessment: Spatial and Temporal Dependent Earthquake Processes	China	93,356	SITING & GEOTECHNICAL SYSTEMS (202)	357-5000
1206	NSF	Engineering	Collaborative Research: Strengthening of Nonductile Moment Resisting Frames	China	102,782	ARCHITECTURE & MECHAN SYSTEMS (202)	357-5000
1207	NSF	Engineering	U.S.-China Cooperative Research: Effects of Fuel Properties and Physical Factors on Engine Combustion Processes	China	5,903	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1208	NSF	Engineering	US-China Cooperative Research (Compisci): Cooperative Feedback Systems Research	China	9,924	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1209	NSF	Engineering	An Investigation of Wind Effects on Structures	China	14,746	NAT & MAN-MADE HAZARD MITIGATI (202)	357-5000
1210	NSF	Engineering	U.S.-China Cooperative Research (Materials Science): Casting Defect Formation Including Hot Tearing	China	12,790	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1211	NSF	Engineering	Nonlinear PC-Windows Version of Program Combat	China	98,865	STRUCTURAL SYSTEMS (202)	357-5000
1212	NSF	Engineering	US-PRC Collaborative Research on Aseismic Hybrid Protective Systems for Tall Buildings	China	56,329	EARTHQUAKE SYSTEMS INTEGRATION (202)	357-5000
1213	NSF	Engineering	U.S.-China Cooperative Research (Engineering): Design of Manufacturing Information Systems	China	17,694	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1214	NSF	Engineering	U.S.-China Cooperative Research: Two-Phase Flow Instability Studies	China	4,784	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1215	NSF	Engineering	U.S.-China Cooperative Research (Materials Science): Computer Simulation of the Deformation of Short Range Ordered F.C.C.	China	8,090	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1216	NSF	Engineering	U.S.-China Cooperative Research: Cylindrical Magnetron Plasma Modeling and Associated Laser Rate Equations	China	23,832	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1217	NSF	Engineering	U.S.-China Cooperative Research: Microstructural Development During Solidification of Aluminum - Rare Earth Alloys	China	15,840	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1218	NSF	Engineering	U.S.-China Cooperative Research (Chemical Engineering): Studies of Acid Catalysts for Hydrocarbon Processing Reactions	China	13,968	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1219	NSF	Engineering	U.S.-China Cooperative Research (Mechanical Engineering): Microstructure and Stress-Strain Behavior of Loess	China	4,215	US CHINA COOP IN BASIC SCIENCE (202)	357-5000
1220	NSF	Engineering	Small Grant for Exploratory Research: Technology Constrained Process Planning	China	30,000	COMPUTER INTEGRATED ENGINEERNG (202)	357-5000
1221	NSF	Engineering	Hysteresis Rules and Design Parameters Assessment of RC Low-Rise Shear Walls and Buildings with Openings	China	104,874	STRUCTURAL SYSTEMS (202)	357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1222	NSF	Engineering	Experimental & Analytical Studies of Reservoir Compressibility Effects on Arch Dams	China	74,46	STRUCTURAL SYSTEMS	(202) 357-5000
1223	NSF	Engineering	U.S.-China Cooperative Research (Engineering): Theoretical Analysis and Experimental Investigation of Semi Rigid Steel Frames	China	15,452	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1224	NSF	Engineering	U.S.-China Cooperative Research (Engineering): Optimum Dynamics Studies for Rotors and Mechanisms	China	13,321	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1225	NSF	Engineering	U.S.-China Cooperative Research (Engineering): Study of Unresolved Problems of Transonic and Supersonic Equivalence Rules with Lift	China	12,912	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1226	NSF	Engineering	Research in Channel Bed Degradation of the River Nile as a Consequence of the High Aswan Dam	Egypt	4,800	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1227	NSF	Engineering	Pharmaceutical Production by Immobilized Cells	Egypt	20,000	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1228	NSF	Engineering	Presidential Young Investigator Award: PRC Supplement for Student or Researcher	India	63,040	MATERIALS ENG & PROCESSING	(202) 357-5000
1229	NSF	Engineering	Pressurized Fluidized Bed Combustion of Low-Grade Coal, Award in Indian and U.S. Currencies	India	43,988	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1230	NSF	Engineering	Electrochemical Mechanisms of Reinforced Concrete Degradation	India	99,140	SYSTEMS ENGIN FOR LARGE STRUCT	(202) 357-5000
1231	NSF	Engineering	Studies on Particle-Bubble Interaction in Relation to Fine Particle Flotation, Award in U.S. and Indian Currencies	India	13,973	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1232	NSF	Engineering	Pressurized Fluidized Bed Combustion of Low - Grade Coal, Award in Indian Currency	India	64,763	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1233	NSF	Engineering	Studies on Particle-Bubble Interaction in Relation to Fine Particle Flotation, Award in Indian Currency	India	14,118	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1234	NSF	Engineering	Earthquake Analysis, Design and Safety Evaluation of Concrete Dams and Intake-Outlet Towers	India	131,064	STRUCTURAL SYSTEMS	(202) 357-5000
1235	NSF	Engineering	Research On Novel Oxide Materials, Award in Indian Currency	India	39,000	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1236	NSF	Engineering	Fundamental Research on Net Shaping of New Products, Award in U.S. and Indian Currencies	India	55,655	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1237	NSF	Engineering	Direct Iron and Steel Making Technologies and Clean Steel, Award in Indian Currency	India	28,725	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1238	NSF	Engineering	Direct Iron and Steelmaking and Clean Steel Technologies, Award in U.S. and Indian Currencies	India	55,819	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1239	NSF	Engineering	Fundamental Research on Netshaping and New Products, Award in Indian Currency	India	28,784	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1240	NSF	Engineering	Numerical Modeling of Complex Flows with Heat Transfer, Award In Indian and U.S. Currencies	India	9,619	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1241	NSF	Engineering	Knowledge-Based Expert Systems for Civil Engineering, Award in Indian and U.S. Currencies	India	11,876	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1242	NSF	Engineering	Numerical Modelling of Complex Flows with Heat Transfer, Award in Indian Currency	India	34,095	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1243	NSF	Engineering	Research on Novel Oxide Materials, Indo-U.S. Collaboration	India	10,922	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1244	NSF	Engineering	Theoretical and Experimental Studies of Run-Off Estimation Based on Remote Sensing, Award in U.S. and Indian Currencies	India	31,238	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1245	NSF	Engineering	Residual Strength of Delaminated Composite Panels Under Compressive Loads, Awarded in U.S. and Indian Currencies	India	12,490	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1246	NSF	Engineering	Knowledge-Based Expert Systems for Civil Engineering, Award in Indian Currency	India	46,659	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1247	NSF	Engineering	Residual Strength of Delaminated Composite Panels Under Compressive Loads, Award in Indian Currency	India	20,894	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1248	NSF	Engineering	Theoretical and Experimental Studies of Run-Off Estimation Based on Remote Sensing, Award in Indian Currency	India	33,655	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1249	NSF	Engineering	Long & Medium Term Research: Transport of Fluid and Macromolecules in Polymeric Gels	India	23,050	RESEARCH-FOREIGN CTRS OF EXCEL	(202) 357-5000
1250	NSF	Engineering	Leaching of Nickel Copper Iron Sulfides in Cupric Chloride Media, Award in U.S. and Indian Currencies.	India	12,210	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1251	NSF	Engineering	Study of Dynamic Fracture of Composite Materials, Award in U.S. and Indian Currencies	India	5,554	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1252	NSF	Engineering	Study of Dynamic Fracture of Composite Materials, Award in Indian Currency	India	21,569	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1253	NSF	Engineering	Study of Relationships of Particle Morphology and Process Parameters to the Physical Properties of Products in Powder Metallurgy, Award in Indian Currency	India	36,471	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1254	NSF	Engineering	Study of Relationships of Particle Morphology and Process Parameters to the Physical Properties of Products in Powder Metallurgy, Award in U.S. and Indian Currencies	India	5,334	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1255	NSF	Engineering	U.S.-Indonesia Cooperative Research: A Quasi-Three Dimensional Groundwater Optimization Model of the Jakarta Basin	Indonesia	10,399	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1256	NSF	Engineering	U.S.-Indonesia Cooperative Research in Boundary Element Methods in Acoustics	Indonesia	10,452	EAST ASIA, OTHER	(202) 357-5000
1257	NSF	Engineering	U.S. National Committee for the Decade for Natural Disaster Reduction	Jamaica	172,403	NAT & MAN-MADE HAZARD MITIGATI	(202) 357-5000
1258	NSF	Engineering	U.S.- Jordan Cooperative Research: Electrical Studies of Ferroelectric Thin Films	Jordan	13,350	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1259	NSF	Engineering	Inelastic Response and Collapse of Steel Building Structures Subjected to Multicomponent Seismic Excitations (Collaborative Research)	Mexico	46,129	STRUCTURAL SYSTEMS	(202) 357-5000
1260	NSF	Engineering	U.S.-Mexico Collaborative Research: Electron Microscopy of Catalyst Particles	Mexico	9,500	MEXICO	(202) 357-5000
1261	NSF	Engineering	U.S.-Mexico Collaborative Research on Nucleate Boiling	Mexico	7,181	MEXICO	(202) 357-5000
1262	NSF	Engineering	A Scientific Visit to Establish Collaboration in Robotics Research Between the University of Illinois and CINVESTAV: Mexico City, Mexico, January 11-25, 1991	Mexico	1,815	MEXICO	(202) 357-5000
1263	NSF	Engineering	Presidential Young Investigator Award	Multicountry	38,717	SYSTEMS ENGIN FOR LARGE STRUCT	(202) 357-5000
1264	NSF	Engineering	U.S.-Argentina, U.S.-Brazil Cooperative Research on Preferred Oriented Surfaces and Amorphous Metallic Alloys as Electrocatalysts for Fuel Cells	Multicountry	10,000	ARGENTINA	(202) 357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1265	NSF	Engineering	4th International Colloquium on Structural Stability will be held in New York City on April 16-19, 1989	Multicountry	26,043	SYSTEMS ENGIN FOR LARGE STRUCT	(202) 357-5000
1266	NSF	Engineering	Prototype Research on Sedimentation Engineering	Pakistan	68,628	PAKISTAN (COOPERATIVE SCIENCE)	(202) 357-5000
1267	NSF	Engineering	US-Peru Cooperative Research: Bioconversion of Lignocellulose to Animal Feed by Solid Substrate Fermentation and Ensiling Substrate Fermentation and Ensiling	Peru	8,656	LATIN AMERICA, SDC	(202) 357-5000
1268	NSF	Engineering	U.S.-Singapore Cooperative Research: Experimental and Analytical Studies of Nonlinear Structural Systems Under Earthquake Loads	Singapore	8,768	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1269	NSF	Engineering	Presidential Young Investigator Award	Thailand	60,315	NAT & MAN-MADE HAZARD MITIGATI	(202) 357-5000
1270	NSF	Engineering	Aerodynamic Characteristics of Boundary Layer Wind Tunnel and Design of Tunnel Components	Uruguay	8,435	LATIN AMERICA, SDC	(202) 357-5000
1271	NSF	Engineering	New Approaches to Real Time Flood Forecasting: Weather Radar and Fluvial Geomorphology in Hydrology	Venezuela	102,509	NAT & MAN-MADE HAZARD MITIGATI	(202) 357-5000
1272	NSF	Engineering	U.S.-Venezuela Cooperative Research: Modeling of Silicon-on-Insulator (SOI) Inversion-Type MOSFETs	Venezuela	5,702	VENEZUELA	(202) 357-5000
1273	NSF	Environment	Study of the Atmospheric Boundary Layer Turbulence Processes in the Tropics, Dispersion Parameters Experiments, Award in Indian Currency	India	38,627	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1274	NSF	Environment	Study of the Atmospheric Boundary Layer Turbulence Processes in the Tropics, Dispersion Parameters Experiments, Award in U.S. and Indian Currencies	India	57,193	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1275	NSF	Environment	Shipboard Technician Support	Mexico	233,251	TECHNICIANS	(202) 357-5000
1276	NSF	Environment	Research on Advanced Renovation of Small Industry Wastes, Reuse of Water from Desizing Waste of Textile Industry, SFC Award in Pakistani Currency	Pakistan	24,917	PAKISTAN (SCIENTIFIC RESEARCH)	(202) 357-5000
1277	NSF	Environment	U.S.-Philippines Cooperative Research: Investigation into the Populational Structure of the Philippines Seagrasses	Philippines	22,202	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1278	NSF	Environment	U.S.- Federal Republic of Germany Cooperative Research on Paleoclimates	Sudan	3,200	GERMANY (F.R.G.)	(202) 357-5000
1279	NSF	Mathematics	U.S.-Argentina Cooperative Research on Numerical Approximations of Variational Inequalities	Argentina.	2,986	ARGENTINA	(202) 357-5000
1280	NSF	Mathematics	U.S.-Argentina Cooperative Research: Mathematical Analysis of Numeric Solutions in Computational Mechanics	Argentina	1,333	ARGENTINA	(202) 357-5000
1281	NSF	Mathematics	U.S.-Argentina Cooperative Research: Catastrophic Instabilities in Square Wave Detonations	Argentina	5,515	ARGENTINA	(202) 357-5000
1282	NSF	Mathematics	U.S.-Brazil Cooperative Research in Differential Geometry	Brazil	9,177	BRAZIL	(202) 357-5000
1283	NSF	Mathematics	U.S.-Brazil Cooperative Research on Interacting Particle Systems and Hydrodynamic Limits	Brazil	6,665	BRAZIL	(202) 357-5000
1284	NSF	Mathematics	Cohen-Macaulay Algebras and the Computation of their Invariants	Brazil	5,210	BRAZIL	(202) 357-5000
1285	NSF	Mathematics	U.S.-Brazil Cooperative Research in Dynamical Systems	Brazil	11,025	BRAZIL	(202) 357-5000
1286	NSF	Mathematics	U.S.-Brazil Cooperative Research on Quantum Field Theory	Brazil	5,105	BRAZIL	(202) 357-5000
1287	NSF	Mathematics	U.S.-China Cooperative Research (Mathematics): Problems on Approximation Theory and Its Applications	China	20,480	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1288	NSF	Mathematics	U.S.-China Cooperative Research: Numerical and Analytical Studies in Nonlinear Waves	China	12,128	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1289	NSF	Mathematics	U.S.-China Cooperative Research (Mathematics): Function Theoretic Methods in Partial Differential Equations	China	9,812	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1290	NSF	Mathematics	Science in Developing Countries: Orthogonal Polynomials, Differential Equations, and Difference Equations	Colombia	3,922	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1291	NSF	Mathematics	U.S.-Ghana Cooperative Research: A Rational Approximation in Strictly Pseudoconvex Domains	Ghana	6,830	AFRICA AND ASIA,OTHER	(202) 357-5000
1292	NSF	Mathematics	Collaborative Research: Foundations of Risk and Decision Analysis: Theoretical Empirical Investigations	Latin America	53,022	DECISION RISK & MAHAGEMENT SCI	(202) 357-5000
1293	NSF	Mathematics	U.S.-Mexico Collaborative Research: Bursting Electrical Activity of Excitable Cells: Mathematical Models Based on Averaged Slow Dynamics	Mexico	2,325	MEXICO	(202) 357-5000
1294	NSF	Mathematics	U.S.-Mexico Cooperative Research: Development and Application of Numerical Techniques For Groundwater Simulation	Mexico	5,468	MEXICO	(202) 357-5000
1295	NSF	Mathematics	Support of Latin American Participation in the Mathematical Logic Year at the Mathematical Sciences Research Institute in Berkeley, CA.	Multicountry	13,533	LATIN AMERICA, SDC	(202) 357-5000
1296	NSF	Mathematics	U.S.-Latin American Congress of Probability and Mathematical Statistics, Mexico City, September 24-29, 1990	Multicountry	8,500	MEXICO	(202) 357-5000
1297	NSF	Other Life SCI	U.S.-Argentina Cooperative Research on Small Mammal Ecology in Argentine Deserts: Physiology, Population Biology, and Species Interactions	Argentina	12,025	ARGENTINA	(202) 357-5000
1298	NSF	Other Life SCI	US-Argentina Cooperative Research on Regulation and Reaction Mechanisms of Key Enzymes of Photosynthesis	Argentina	2,850	ARGENTINA	(202) 357-5000
1299	NSF	Other Life SCI	US-Argentina Cooperative Research on Regulation and Reaction Mechanisms of Key Enzymes of Photosynthesis	Argentina	3,217	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1300	NSF	Other Life SCI	U.S.-Argentina Cooperative Research: Oxygen Radical Generation by Rat Liver Nuclei: Effect of Iron Complexes	Argentina	6,110	ARGENTINA	(202) 357-5000
1301	NSF	Other Life SCI	U.S.-Argentina Cooperative Research on In-Vivo Cloning in Bacillus Subtilis	Argentina	5,630	ARGENTINA	(202) 357-5000
1302	NSF	Other Life SCI	U.S. - Argentina Cooperative Research on Localization and Function of Isoforms of the Catalytic Subunit of the Na K-ATPase	Argentina	9,930	ARGENTINA	(202) 357-5000
1303	NSF	Other Life SCI	Floristic Survey of the Yungas Valleys of La Paz, Bolivia	Bolivia	25,501	BIOLOGICAL RESEARCH RESOURCES	(202) 357-5000
1304	NSF	Other Life SCI	Collaborative Research: Mammalian Diversity in Bolivia - The Yungas and Valles	Bolivia	55,701	SYSTEMATIC BIOLOGY	(202) 357-5000
1305	NSF	Other Life SCI	Collaborative Research: Mammalian Diversity in Bolivia - The Yungas and Valles	Bolivia	34,514	SYSTEMATIC BIOLOGY	(202) 357-5000
1306	NSF	Other Life SCI	U.S.-Brazil Cooperative Research on The Medium Dependence of Biological Electron Transfer Reactions	Brazil	5,776	BRAZIL	(202) 357-5000
1307	NSF	Other Life SCI	U.S.-Brazil Cooperative Research: Calcium Transport Across Biological Membranes	Brazil	9,060	BRAZIL	(202) 357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1308	NSF	Other Life SCI	U.S.-Brazil Cooperative Research on Characterization of Amorphous Occlusions in Citrus with Blight and Declinio	Brazil	9,007	BRAZIL	(202) 357-5000
1309	NSF	Other Life SCI	U.S.-Brazil Cooperative Research on the Biochemistry of Food Proteins	Brazil	7,799	BRAZIL	(202) 357-5000
1310	NSF	Other Life SCI	U.S.-Brazil Cooperative Research on Science Education	Brazil	9,342	BRAZIL	(202) 357-5000
1311	NSF	Other Life SCI	U.S.-Brazil Cooperative Research on Development of Axon Pathways in the Mammalian Visual System	Brazil	8,750	BRAZIL	(202) 357-5000
1312	NSF	Other Life SCI	Hydrology and Ecology of the Capoes De Aterro of the Pantanal of Mato Grosso	Brazil	2,476	BRAZIL	(202) 357-5000
1313	NSF	Other Life SCI	U.S.-Chile Cooperative Research on Proteoglycan Sulfotransferases	Chile	10,242	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1314	NSF	Other Life SCI	U.S.-Chile Cooperative Research on the Dynamics of Guild Structure in an Assemblage of Predatory Vertebrates	Chile	6,455	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1315	NSF	Other Life SCI	Genetic and Biochemical Studies of Lignolytic Bacteria	Chile	6,315	LATIN AMERICA, SDC	(202) 357-5000
1316	NSF	Other Life SCI	Palo Podrido: A Unique Model to Study Selective Delignification of Wood	Chile	5,498	LATIN AMERICA, SDC	(202) 357-5000
1317	NSF	Other Life SCI	Fluorescence Studies of Dynamic Processes in Peroxidase hemeprotein	Chile	8,506	LATIN AMERICA, SDC	(202) 357-5000
1318	NSF	Other Life SCI	A Comparison of the Influence of Fossorial Rodents on the Dynamics of Mediterranean Grassland Landscapes in Chile and California	Chile	8,417	LATIN AMERICA, SDC	(202) 357-5000
1319	NSF	Other Life SCI	U.S.-Chile Cooperative Research on Characterization of the Human Peroxisomal Membrane	Chile	8,900	LATIN AMERICA, SDC	(202) 357-5000
1320	NSF	Other Life SCI	U.S.-China Cooperative Research: Genetic and Evolutionary Studies of Populus of North America and China	China	15,101	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1321	NSF	Other Life SCI	Mathematical Models of Selection and Interaction Among Populations	China	45,750	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1322	NSF	Other Life SCI	U.S.-China Cooperative Research (Neurobiology): Mapping of Active Site Residues in the Erythrocyte Anion Exchange Protein	China	14,804	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1323	NSF	Other Life SCI	US-China Cooperative Research (Biol.):Regulation of Plant Enzymes	China	11,951	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1324	NSF	Other Life SCI	U.S.-China Cooperative Research: Holocene Environmental History of the Kunming Lake District as Recorded in Lake Sediments	China	38,736	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1325	NSF	Other Life SCI	U.S. - China Cooperative Research: Genetics of Chinese and American Kelps	China	25,558	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1326	NSF	Other Life SCI	US-China Cooperative Research Programs: Cytosystematics of Cyprinid Fishes	China	10,050	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1327	NSF	Other Life SCI	REU: The Cranial Structure of Chinese Liassic Mammals and Tritylodontids	China	52,000	SYSTEMATIC BIOLOGY	(202) 357-5000
1328	NSF	Other Life SCI	US-China Coop Research: Occurrence and Distribution of Toxic Cyanobacteria(blue-green algae) in China:Isolation & Characterization of Toxins and Their Role in Waterbased Diseases	China	13,922	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000

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1329	NSF	Other Life SCI	U.S.-China Cooperative Research: Trans-Pacific Comparisons of Juniperus Species Using Micromolecular and Macromolecular Data	China	16,122	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1330	NSF	Other Life SCI	Flora of China Project to Translate, Revise, and Computerize the Florae Reipublicae Popularis Sinicae	China	165,806	SYSTEMATIC BIOLOGY	(202) 357-5000
1331	NSF	Other Life SCI	U.S.-China Cooperative Research: Establishment of International Protein Structure Database	China	9,278	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1332	NSF	Other Life SCI	U.S.-China Cooperative Research (Biology): Determinants of Lifetime Reproductive Success in the Small Mammal, the Black-Lipped Pika	China	22,739	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1333	NSF	Other Life SCI	U.S.-China Cooperative Research (Biology): Determinants of Lifetime Reproductive Success in the Small Mammal, the Black-Lipped Pika	China	18,487	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1334	NSF	Other Life SCI	The Moth Fauna of Costa Rica	Costa Rica	117,578	SYSTEMATIC BIOLOGY	(202) 357-5000
1335	NSF	Other Life SCI	Administration, Maintenance and Development of the La Selva Biological Station, Puerto Viejo de Sarapiquí, Costa Rica	Costa Rica	287,814	FIELD STATIONS	(202) 357-5000
1336	NSF	Other Life SCI	The Caddisflies, or Trichoptera, of Costa Rica	Costa Rica	74,152	SYSTEMATIC BIOLOGY	(202) 357-5000
1337	NSF	Other Life SCI	Manual to the Plants of Costa Rica - Phase 2	Costa Rica	264,186	SYSTEMATIC BIOLOGY	(202) 357-5000
1338	NSF	Other Life SCI	Ecuador and Galapagos Island Research: The Evolution of Cooperative Breeding in Tropical Raptors	Ecuador	10,000	SCIENCE IN DEVELOPING COUNTRIES	(202) 357-5000
1339	NSF	Other Life SCI	Administrative and Technical Management of NSF Program Activities within Egypt	Egypt	14,545	ARAB REPUBLIC OF EGYPT (SCI RES)	(202) 357-5000
1340	NSF	Other Life SCI	Selection Trials for Effective Nitrogen-fixing Casuarinas for Egypt (U.S.-Egypt Cooperative Science: Science in Developing Countries).	Egypt	5,633	SCIENCE IN DEVELOPING COUNTRIES	(202) 357-5000
1341	NSF	Other Life SCI	Scientific Visit to Develop a Proposal on Chemistry, Biological Activity and Ethnopharmacology of Natural Products in Guyana	Guyana	2,000	LATIN AMERICA, SDC	(202) 357-5000
1342	NSF	Other Life SCI	SFC Award (Indian Currency) to Translate Foreign Scientific and Technical Literature into English	India	310,624	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1343	NSF	Other Life SCI	Support of Activities under the Indo-U.S. Science and Technology Initiative in the Area of Photovoltaics	India	20,225	INDO-US SCIENCE & TECH IN	(202) 357-5000
1344	NSF	Other Life SCI	Rhesus Maternal Care in Relation to Population Growth, Award in U.S. and Indian Currencies	India	5,369	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1345	NSF	Other Life SCI	Monitoring Gene Changes Following Long-Term Seed Storage, Award in U.S. and Indian Currencies	India	16,765	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1346	NSF	Other Life SCI	Social Biology of Ropalidia Montana, Award in Indian Currency	India	1,500	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1347	NSF	Other Life SCI	Interactions of Specific Ligands with Proteins from Peanut, Sunflower Seed, Safflower Seed and Sesame Seed, Award in U.S. and Indian Currencies	India	11,942	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1348	NSF	Other Life SCI	Interaction of Specific Ligands with Proteins from Peanut, Sunflower Seed, Safflower Seed and Sesame Seed, Award in Indian Rupees	India	23,529	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1349	NSF	Other Life SCI	Field Study of Mammalian Behavioral Development	Kenya	118,528	ANIMAL BEHAVIOR	(202) 357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1350	NSF	Other Life SCI	REU: Collaborative Research: Revisionary Studies in Bromeliaceae Subfamily Tillandsioideae	Latin America	37,301	SYSTEMATIC BIOLOGY	(202) 357-5000
1351	NSF	Other Life SCI	U.S.-Malaysia Seminar on Innovation and Commercialization in Malaysia Research, Kuala Lumpur, September 9, 1990		2,719	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1352	NSF	Other Life SCI	U.S.-Malaysia Seminar on Biodiversity, Kuala Lumpur, June 6-12, 1990	Malaysia	33,247	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1353	NSF	Other Life SCI	United States-Malaysia Seminar on Innovation and Commercialization in Research, Kuala Lumpur, Malaysia, November 12-16, 1990	Malaysia	43,868	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1354	NSF	Other Life SCI	U.S.-Mexico Cooperative Research: Effects of Prostaglandin B1 Oligomers on Membrane Ca <sup>2+</sup> -ATPase	Mexico	4,536	MEXICO	(202) 357-5000
1355	NSF	Other Life SCI	U.S.-Mexico Collaborative Research: Biochemical Basis and Function of Stress-Induced Betaine Accumulation in Maize	Mexico	8,302	MEXICO	(202) 357-5000
1356	NSF	Other Life SCI	US-Mexico Cooperative Research: cGMP Regulated Ionic Channels in Sperm	Mexico	5,278	MEXICO	(202) 357-5000
1357	NSF	Other Life SCI	U.S.-Mexico Collaborative Studies on Determinants of Distribution in Piper Species from a Tropical Rain Forest	Mexico	9,750	MEXICO	(202) 357-5000
1358	NSF	Other Life SCI	Collaborative Research: Cactophilic Drosophila Epicuticular Hydrocarbon System	Mexico	40,558	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1359	NSF	Other Life SCI	Collaborative Research: Cactophilic Drosophila Epicuticular Hydrocarbon System	Mexico	34,442	POPULAT BIOLOGY & PHYSIOL ECOL	(202) 357-5000
1360	NSF	Other Life SCI	Vascular-Plant Flora of Jalisco, Mexico	Mexico	45,336	SYSTEMATIC BIOLOGY	(202) 357-5000
1361	NSF	Other Life SCI	U.S.-Mexico Cooperative Research: Development of Physiological Selection Criteria for Breeding Drought Resistant Genotypes of Grain Sorghum	Mexico	4,812	MEXICO	(202) 357-5000
1362	NSF	Other Life SCI	Active Site of Beta-Lactamases	Multicountry	19,980	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1363	NSF	Other Life SCI	Genetic Analysis and Population Structure of Spiny Lobsters in the Caribbean	Multicountry	7,975	LATIN AMERICA, SDC	(202) 357-5000
1364	NSF	Other Life SCI	Flora Mesoamericana - Phase 3	Multicountry	109,997	SYSTEMATIC BIOLOGY	(202) 357-5000
1365	NSF	Other Life SCI	Paleontology and Geochronology of the Middle Miocene of South America	Multicountry	127,788	SYSTEMATIC BIOLOGY	(202) 357-5000
1366	NSF	Other Life SCI	U.S.-Nigeria Cooperative Research on Patterns of Predation and Taxonomic Diversification in Cenozoic Gastropod Assemblages	Nigeria	9,298	AFRICA AND ASIA, OTHER	(202) 357-5000
1367	NSF	Other Life SCI	SFC Award (Pakistani Currency) for Study of Chromosomes of Vascular Plants of Pakistan	Pakistan	22,938	PAKISTAN (SCIENTIFIC RESEARCH)	(202) 357-5000
1368	NSF	Other Life SCI	Physiological and Biochemical Aspects of Nitrogen Fixation in Kallar Grass, SFC Award in U.S. and Pakistani Currencies	Pakistan	10,092	PAKISTAN (COOPERATIVE SCIENCE)	(202) 357-5000
1369	NSF	Other Life SCI	Enzymology of DNA Repair, SFC Award in Pakistani Currency	Pakistan	10,405	PAKISTAN (SCIENTIFIC RESEARCH)	(202) 357-5000
1370	NSF	Other Life SCI	Enzymology of DNA Repair, SFC Award in Pakistani and U.S. Currencies	Pakistan	15,417	PAKISTAN (COOPERATIVE SCIENCE)	(202) 357-5000
1371	NSF	Other Life SCI	Evaluation of Chemical Pollution Using Bioassay Procedures, in Pakistan	Pakistan	9,375	PAKISTAN (COOPERATIVE SCIENCE)	(202) 357-5000
1372	NSF	Other Life SCI	Search for Enzymes with Long Recognition Sequences, U.S.-Pakistan Collaboration	Pakistan	10,000	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1373	NSF	Other Life SCI	Collaborative Research: Evolution of Nasal Passages in Peccaries: Functional Interpretation	Paraguay	50,887	SYSTEMATIC BIOLOGY	(202) 357-5000
1374	NSF	Other Life SCI	Philippine Plant Inventory	Philippines	393,374	SYSTEMATIC BIOLOGY	(202) 357-5000
1375	NSF	Other Life SCI	Collaborative Research: Revisionary Studies in Bromeliaceae Subfamily Tillandsioideae	South America	36,614	SYSTEMATIC BIOLOGY	(202) 357-5000
1376	NSF	Other Life SCI	A U.S.-Sri Lanka Seminar on the Development of a Science Information Center and Information Science Program	Sri Lanka	9,304	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1377	NSF	Other Life SCI	U.S.-Venezuela Cooperative Research: Ultrastructure of Contracting Muscle Studied by Rapid Freezing	Venezuela	4,245	LATIN AMERICA, SDC	(202) 357-5000
1378	NSF	Other Life SCI	U.S.-Venezuela Cooperative Science: Anaplasma Marginale Proteins and Attachment to Bovine Red Cell Ligands	Venezuela	2,503	VENEZUELA	(202) 357-5000
1379	NSF	Other Life SCI	Flora of the Venezuelan Guyana	Venezuela	59,602	SYSTEMATIC BIOLOGY	(202) 357-5000
1380	NSF	Other Life SCI	U.S.-Venezuela Cooperative Research on the Rivulid Killifishes	Venezuela	6,840	VENEZUELA	(202) 357-5000
1381	NSF	Other Life SCI	US-Venezuela Cooperative Research: Life History Studies of Plant Path Pathogenic Ascomycetes in Venezuela	Venezuela	8,500	VENEZUELA	(202) 357-5000
1382	NSF	Other Life SCI	U.S.- Venezuela Program: Structural Studies of Enzymes of the Energy Metabolism of Trypanosoma Cruzi	Venezuela	3,736	VENEZUELA	(202) 357-5000
1383	NSF	Other Life SCI	Research Participation in a Survey of the Natural Resources of the Venezuelan Guayana Region	Venezuela	9,992	LATIN AMERICA, SDC	(202) 357-5000
1384	NSF	Other Life SCI	Long-Range Monitoring of Movement Patterns and Infrasonic Vocalizations	Zimbabwe	53,832	ANIMAL BEHAVIOR	(202) 357-5000
1385	NSF	Physics	U.S.-Argentina Cooperative Research Program Concerning the Physics of Electron Ejection in High Velocity Ion-Atom and Ion-Solid Collisions	Argentina	7,443	ARGENTINA	(202) 357-5000
1386	NSF	Physics	U.S.-Argentina Cooperative Research on Fermionic Models in Condensed Matter Physics and Field Theory	Argentina	11,046	ARGENTINA	(202) 357-5000
1387	NSF	Physics	U.S.-Argentina Cooperative Research Evolution of Nuclear Spins in the Transitional Nuclei Around A=80,180	Argentina	5,474	ARGENTINA	(202) 357-5000
1388	NSF	Physics	U.S.-Argentina Cooperative Research: Theoretical Studies of Rearrangement Processes in Ion-Atom & Ion-Molecular Collision	Argentina	7,880	ARGENTINA	(202) 357-5000
1389	NSF	Physics	Experimental Particle Physics	Asia	205,000	ELEMENT. PARTICLE ACCEL USER	(202) 357-5000
1390	NSF	Physics	U.S.-Brazil Cooperative Research on the Theory of Disordered Systems (Applied Mathematics)	Brazil	4,951	BRAZIL	(202) 357-5000
1391	NSF	Physics	U.S.-Brazil Cooperative Research: Inelastic Electron Scattering by Atomic and Diatomic Targets	Brazil	6,290	BRAZIL	(202) 357-5000
1392	NSF	Physics	U.S.-Brazil Cooperative Research: High-Temperature Superconductivity Research	Brazil	7,095	BRAZIL	(202) 357-5000
1393	NSF	Physics	U.S.-Brazil Cooperative Research in Atomic Collisions	Brazil	4,095	BRAZIL	(202) 357-5000
1394	NSF	Physics	U.S.-Argentina Cooperative Research: Theoretical Studies in Nuclear Structure Physics	Brazil	7,300	ARGENTINA	(202) 357-5000
1395	NSF	Physics	U.S.-Brazil Cooperative Research on Electromagnetic Processes in Heavy-Ion Physics	Brazil	4,620	BRAZIL	(202) 357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1396	NSF	Physics	Partial Financial Support of the Federation of Latin American Physical Societies, Rio de Janeiro, Brazil, 1990	Brazil	15,000	LATIN AMERICA, SDC	(202) 357-5000
1397	NSF	Physics	U.S.-China Cooperative Research: Temperature Dependence of Dynamical Symmetry Breaking and Bifurcation	China	11,298	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1398	NSF	Physics	U.S.-China Cooperative Research: Independent Particle and Quantum Defect Approaches to Photoionization & Photon Scattering	China	12,745	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1399	NSF	Physics	U.S.-China Cooperative Research: Improvement of Amorphous Silicon Semiconductors	China	14,070	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1400	NSF	Physics	U.S.-China Cooperative Research (Material Science): Novel Phenomena in Electron Transport	China	19,524	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1401	NSF	Physics	U.S.-China Cooperative Research (Solid State Physics): Electronic Transport in Amorphous Silicon Multilayers	China	12,380	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1402	NSF	Physics	US - China Cooperative Research (Physics): Study of Very High Energy Light Particle Production in Heavy - Ion Collisions using BGO Glass Scintillator Detectors	China	10,795	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1403	NSF	Physics	U.S.-China Cooperative Research: Electron Impact Cross Sections for Modeling Radiation Damage: The Water Molecule	China	9,412	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1404	NSF	Physics	U.S.-China Cooperative Research: Search for Fractionally Charged Nuclei with Glass Detectors	China	36,020	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1405	NSF	Physics	U.S.-China Cooperative Research: Growth Kinetics and Morphological Stability of Crystals	China	11,440	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1406	NSF	Physics	US-China Cooperative Research: Dynamical Correlation of Atomic Processes	China	11,578	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1407	NSF	Physics	US-China Cooperative Research: Atomic Processes In Muon-Catalyzed Fusion	China	17,608	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1408	NSF	Physics	U.S.-China Cooperative Research (Physics): Studies of Nuclear Structure Physics	China	4,000	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1409	NSF	Physics	Fundamental Studies of Ultra-thin Magnetic Films	Costa Rica	5,625	LATIN AMERICA, SDC	(202) 357-5000
1410	NSF	Physics	Studies in Flux Motion in High Temperature Superconductors	Costa Rica	6,900	LATIN AMERICA, SDC	(202) 357-5000
1411	NSF	Physics	Investigations in Supernova Physics, Award in Indian Currency	India	18,775	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1412	NSF	Physics	Investigation in Supernova Physics, Award in U.S. and Indian Currencies	India	17,021	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1413	NSF	Physics	Investigations on the Primary Interactions of Gamma Rays with Matter, Studies of Elastic Photon Atom Scattering, Award in U.S. and Indian Currencies	India	12,460	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1414	NSF	Physics	Comprehensive Study of Direct Photon Production in Hadron Induced Collisions, Award in Indian and U.S. Currencies	India	68,086	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1415	NSF	Physics	Investigations on the Primary Interactions of Gamma Rays with Matter, Studies of Elastic Photon Atom Scattering, Award in Indian Currency	India	17,418	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1416	NSF	Physics	Transport Properties of Sol Gel Derived Glasses, Award in U.S. and Indian Currencies	India	18,388	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1417	NSF	Physics	Comprehensive Study of Direct Photon Production in Hadron Induced Collisions, Award in Indian Currency	India	44,694	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1418	NSF	Physics	Transport Properties of Sol Gel Derived Glasses, Award in Indian Currency	India	27,118	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1419	NSF	Physics	Microscopic Theory of Hypernuclei, Award in U.S. and Indian Currencies	India	14,100	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1420	NSF	Physics	Microscopic Theory of Hypernuclei, Award in Indian Currency	India	53,380	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1421	NSF	Physics	Control of Disruptions in Aditya Tokamak/Guest Scientist Award in India Currency.	India	19,891	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1422	NSF	Physics	Quantum Photophysics of Atoms, Molecules, and Surfaces, Award in U.S. and Indian Currencies.	India	33,139	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1423	NSF	Physics	Elastic and Inelastic Scattering of Gamma Rays, Award in U.S. and Indian Currencies	India	17,000	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1424	NSF	Physics	U.S.-Malaysia Cooperative Research on Threshold Region Elastic Photon Atom Scattering	Malaysia	10,165	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1425	NSF	Physics	High Energy Physics	Mexico	450,000	ELEMENTARY PARTICLE ACCEL USER	(202) 357-5000
1426	NSF	Physics	U.S.-Mexico Collaborative Research: Angular Scattering in Highly Excited Rydberg Atom Formation	Mexico	7,613	MEXICO	(202) 357-5000
1427	NSF	Physics	US-Mexico Cooperative Research: Microscopic Study of Collection Phenomena in Deformed Nuclei	Mexico	6,538	MEXICO	(202) 357-5000
1428	NSF	Physics	U.S.-Mexico Collaborative Research: Sub-Barrier Fusion of Heavy Ions	Mexico	3,414	MEXICO	(202) 357-5000
1429	NSF	Physics	US-Mexico Collaborative Research: Lightning Effects on Power Distribution Lines	Mexico	8,920	MEXICO	(202) 357-5000
1430	NSF	Physics	US-Mexico Cooperative Research: Statistical Mechanics of Chemical Kinetics and Random Systems	Mexico	4,711	MEXICO	(202) 357-5000
1431	NSF	Physics	U.S.-Mexico Cooperative Research: Theoretical and Experimental Studies of Nucleon Transfer Reactions in the Vicinity of Fermi Energy	Mexico	6,048	MEXICO	(202) 357-5000
1432	NSF	Physics	U.S.-Mexico Collaborative Research in Quantum Gravity	Mexico	2,442	MEXICO	(202) 357-5000
1433	NSF	Physics	US-Mexico Collaborative Research: Theoretical Studies of Quantum Transport in Disordered Media	Mexico	8,745	LATIN AMERICA, SDC	(202) 357-5000
1434	NSF	Physics	BCSPIN KATHMANDU SUMMER SCHOOL "Non-Perturbative Phenomena and Selected Current Topics in Condensed Matter and Particle Physics", May 20-June 8, 1990, Kathmandu, Nepal	Nepal	10,000	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1435	NSF	Physics	Nuclear Chromodynamics, U.S.-Pakistan Cooperative Research at M.I.T.	Pakistan	6,390	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1436	NSF	Physics	U.S.-Japan Cooperative Research: Ultrahigh Energy Cosmic Rays	South America	15,625	JAPAN	(202) 357-5000
1437	NSF	Social Sciences	Collaborative Research on Long Paleoenvironmental Records from Cave Sediments	Africa	25,540	GEOGRAPHY	(202) 357-5000
1438	NSF	Social Sciences	Collaborative Research on Long Paleoenvironmental Records from Cave Sediments	Africa	23,563	GEOGRAPHY	(202) 357-5000

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REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1439	NSF	Social Sciences	Collaborative Research on Long Paleoenvironmental Records from Cave Sediments	Africa	28,134	GEOGRAPHY	(202) 357-5000
1440	NSF	Social Sciences	U.S.-China Cooperative Research (Economic): Reform and Productivity in China's Industrial Economy	China	34,550	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1441	NSF	Social Sciences	Urban Heavy Rescue Following Earthquakes	China	21,432	EARTHQUAKE SYSTEMS INTEGRATION	(202) 357-5000
1442	NSF	Social Sciences	U.S.-China Cooperative Research (Geography): Data Acquisition and Research Agenda of Contemporary Urban China	China	16,178	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1443	NSF	Social Sciences	Local Earthquake Mitigation and Preparedness Planning in China and the United States	China	121,274	EARTHQUAKE SYSTEMS INTEGRATION	(202) 357-5000
1444	NSF	Social Sciences	U.S.-China Cooperative Research (Political Science): Local Political Reform in China	China	75,000	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1445	NSF	Social Sciences	U.S.-China Cooperative Research (Sociology): Modeling the Health Transition: An Analysis of the Consequences of Socioeconomic and Demographic Changes in China	China	18,574	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1446	NSF	Social Sciences	U.S.-China Cooperative Research (Sociology): Status Attainment in a Chinese Urban Area	China	20,863	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1447	NSF	Social Sciences	U.S.-China Cooperative Research (Geography): Modeling and Measuring the Bidirectional Reflectance of Forest and Crop Canopies Using Boolean and Geometric Optics	China	48,454	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1448	NSF	Social Sciences	U.S.-Japan Cooperative Research: The La Venta Fossil Primates	Colombia	5,317	JAPAN	(202) 357-5000
1449	NSF	Social Sciences	Influence Of Industrialization On Social And Economic Security (U.S.-Egypt Cooperative Science: Science In Developing Countries)	Egypt	13,333	SCIENCE IN DEVELOPING COUNTRIES	(202) 357-5000
1450	NSF	Social Sciences	Excavations at Rojdi: The Investigation of an Harrapan Town Award in Indian Currencies	India	44,305	ARCHAEOLOGY	(202) 357-5000
1451	NSF	Social Sciences	Social Structure and Dispute Settlement, Award in Indian and U.S. Currencies	India	11,092	LAW AND SOCIAL SCIENCES	(202) 357-5000
1452	NSF	Social Sciences	Collaboration of Indian and American Research Scholars in the Natural and Social Sciences, Award in US and Indian Currencies	India	143,150	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1453	NSF	Social Sciences	Decision Support System for Improving the Locational Efficiency of Service Systems, Award in U.S. and Indian Currencies	India	16,521	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1454	NSF	Social Sciences	Decision Support System for Improving Locational Efficiency of Service Systems, Award in Indian Currency	India	29,333	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1455	NSF	Social Sciences	Support for Research of U.S. Scientists Working in India, Award in U.S. and Indian Currencies	India	179,792	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1456	NSF	Social Sciences	Fact-finding Evaluation and the Ordering of Speaking Turns in Legal Settings	India	31,826	LAW AND SOCIAL SCIENCES	(202) 357-5000
1457	NSF	Social Sciences	Support of American Scholars in the Natural and Social Sciences in Collaborative Research in India. Award in U.S. and Indian Currencies	India	41,294	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1458	NSF	Social Sciences	Cultural Values and the Transformation of the Soviet Union	India	12,700	LAW AND SOCIAL SCIENCES	(202) 357-5000

Science & Technology Projects listed by Agency -- NSF Projects

REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1459	NSF	Social Sciences	U.S.-Indonesia Cooperative Research: Employment Decisions, Mobility, and Enterprise Development in Indonesian Transmigration.	Indonesia	37,114	SCIENCE IN DEVELOPING COUNTRIE	(202) 357-5000
1460	NSF	Social Sciences	Collaborative Research on the Political Economy of Military Spending in the Developing World	Israel	34,632	POLITICAL SCIENCE	(202) 357-5000
1461	NSF	Social Sciences	Topics in Game Theory	Israel	109,879	ECONOMICS	(202) 357-5000
1462	NSF	Social Sciences	Ironworking And Culture Change Among the Swahili of Kenya	Kenya	5,975	ARCHAEOLOGY	(202) 357-5000
1463	NSF	Social Sciences	Collaborative Research: Early State Formation Processes: The Aztec City State of Otumba, Mexico	Mexico	20,000	ARCHAEOLOGY	(202) 357-5000
1464	NSF	Social Sciences	J.S.-Mexico Collaborative Research: Peasant Economy and Household Units: Dynamics Structure and Reproduction in the Valley of Oaxaca	Mexico	14,151	MEXICO	(202) 357-5000
1465	NSF	Social Sciences	Reconstruction Following Hurricane Gilbert	Multicountry	15,000	EARTHQUAKE SYSTEMS INTEGRATION	(202) 357-5000
1466	NSF	Social Sciences	Coffee and Politics in Central America: The Coffee Elites of El Salvador, Costa Rica, and Nicaragua	Multicountry	29,828	SOCIOLOGY	(202) 357-5000
1467	NSF	Social Sciences	Social Stratification	South Africa	66,608	SOCIOLOGY	(202) 357-5000
1468	NSF	Social Sciences	Effects of Crowding in Bangkok	Thailand	49,977	SOCIOLOGY	(202) 357-5000
1469	NSF	Space Sciences	US-Brazil Cooperative Research on: Radio Continuum Emission Photodissociation and Photoionization in Comets	Brazil	1,390	BRAZIL	(202) 357-5000
1470	NSF	Space Sciences	Presidential Young Investigator Award - Quasars, Active Galactic Nuclei, and Extragalactic Astronomy	Chile	55,534	EXTRAGALACTIC ASTRONOMY	(202) 357-5000
1471	NSF	Space Sciences	Observational Studies of Massive Stars and Their Evolution in Galaxies	Chile	86,130	EXTRAGALACTIC ASTRONOMY	(202) 357-5000
1472	NSF	Space Sciences	Quasi-Stellar Object (QSO) Investigations of the Universe at Large Redshifts	Chile	88,324	EXTRAGALACTIC ASTRONOMY	(202) 357-5000
1473	NSF	Space Sciences	Study of Galaxy Evolution with Near Infrared Imaging	Chile	48,200	EXTRAGALACTIC ASTRONOMY	(202) 357-5000
1474	NSF	Space Sciences	The Integrated Spectra of Stellar Systems	Chile	27,500	EXTRAGALACTIC ASTRONOMY	(202) 357-5000
1475	NSF	Space Sciences	Cosmological Evolution of Active Galactic Nuclei, BL Lacertae Objects, and Clusters of Galaxies	Chile	41,050	EXTRAGALACTIC ASTRONOMY	(202) 357-5000
1476	NSF	Space Sciences	Probes of the Broad Line Regions of Quasi-Stellar Objects (QSOs)	Chile	40,000	EXTRAGALACTIC ASTRONOMY	(202) 357-5000
1477	NSF	Space Sciences	Collaborative Research on Study of Halo Cataclysmic Variables	Chile	32,950	STARS & STELLAR EVOLUTION	(202) 357-5000
1478	NSF	Space Sciences	Collaborative Research on High Galactic Latitude Cataclysmic Variables	Chile	18,500	STARS & STELLAR EVOLUTION	(202) 357-5000
1479	NSF	Space Sciences	U.S.-China Cooperative Research (Astrophysics): Radio Studies of Burst of Star Formation in Clumpy Irregular Galaxies	China	9,719	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1480	NSF	Space Sciences	U.S.-China Cooperative Research (Astronomy): Joint Observations of the Long-Term Evolution of Solar Magnetic Fields	China	19,309	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1481	NSF	Space Sciences	U.S.-China Cooperative Research (Astronomy): Quasar Absorption Lines: Physical Conditions in the Early Universe	China	12,106	US CHINA COOP IN BASIC SCIENCE	(202) 357-5000
1482	NSF	Space Sciences	A Catalog of Seyfert, Nuclei, N Systems and Active Galactic Nuclei	India	12,029	EXTRAGALACTIC ASTRONOMY	(202) 357-5000

Science & Technology Projects listed by Agency -- NSF Projects

REF#	Agency	Sector	Title of Activity	Country	Funding	NSF Identification Program	Telephone No.
1483	NSF	Space Sciences	Measurement and Analysis of Kodaikanal Solar Images, Award in U.S. and Indian Currencies	India	15,618	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1484	NSF	Space Sciences	Measurement and Analysis of Kodaikanal Solar Images, Award in Indian Currency	India	16,533	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1485	NSF	Space Sciences	Study of Solar Oscillations Phase I, Site Evaluation, Award in Indian Currency	India	20,588	INDIA (SCIENTIFIC RESEARCH)	(202) 357-5000
1486	NSF	Space Sciences	Study of Solar Oscillations Phase I, Site Evaluation, Award in U.S. and Indian Currencies	India	6,973	INDIA (COOPERATIVE SCIENCE)	(202) 357-5000
1487	NSF	Space Sciences	U.S.-Brazil Cooperative Research: Redshift Survey of the Southern Skies	Multicountry	5,020	BRAZIL	(202) 357-5000
1488	NSF	Space Sciences	Star Clusters: Observing Stellar Evolution	Multicountry	38,700	STARS & STELLAR EVOLUTION	(202) 357-5000
1489	NSF	Space Sciences	U.S.-Venezuela Cooperative Research: Long-Term Astronomical Surveys Using Electronic Detectors on a Wide-Field Telescope	Venezuela	8,649	VENEZUELA	(202) 357-5000

# **APPENDIX E**



Science & Technology Activities listed by Country -- NSF Activities<sup>1</sup>

REF#	Country	Sector	Agency	Title of Activity	Funding
1151	Africa	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya Rift International Project Seismic Array Studies	36,650
1152	Africa	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya Rift International Seismic Project - An International Cooperative Experiment: Seismic Array Study	36,596
1153	Africa	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya Rift International Seismic Project, An International Cooperative Experiment	48,607
1154	Africa	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya International Seismic Project - An International Cooperative Experiment	21,855
1437	Africa	Social Sciences	NSF	Collaborative Research on Long Paleoenvironmental Records from Cave Sediments	25,540
1438	Africa	Social Sciences	NSF	Collaborative Research on Long Paleoenvironmental Records from Cave Sediments	23,563
1439	Africa	Social Sciences	NSF	Collaborative Research on Long Paleoenvironmental Records from Cave Sediments	28,134
1001	Argentina	Chemistry	NSF	US-Argentina Cooperative Research on Energy Transfer in Molecular Interactions	9,679
1002	Argentina	Chemistry	NSF	U.S.-Argentina Cooperative Research on In Situ Study by Synchrotron Radiation of the Structure of the Ammonia Synthesis Catalyst	6,594
1003	Argentina	Chemistry	NSF	U.S.-Argentina Cooperative Research on Ionic Solutions and Interfaces	8,208
1031	Argentina	Earth SCI/Atmos	NSF	Solar Radiation in the High Latitude Southern Hemisphere	79,355
1040	Argentina	Earth SCI/Ocean	NSF	High Resolution Study of the Dynamics of the Confluence Region	247,000
1041	Argentina	Earth SCI/Ocean	NSF	REU: The ACC and Deep Western Boundary Currents in the Southwest Atlantic: An Analysis of Field Observations	146,447
1042	Argentina	Earth SCI/Ocean	NSF	U.S.-Argentina Cooperative Research: An International Effort to Study the Southwestern Atlantic Ocean	7,252
1067	Argentina	Earth SCI/Terre	NSF	U.S.-Argentina Cooperative Research on Grass/Shrub Interactions in Two Temperate Semiarid Regions	8,591
1068	Argentina	Earth SCI/Terre	NSF	Cretaceous and Tertiary Strata of the James Ross Basin and the Evolution of the Antarctic Peninsula	38,372
1069	Argentina	Earth SCI/Terre	NSF	US-Argentina Cooperative Research on Seismological and Geological Studies of Central Andes of South America	6,242
1070	Argentina	Earth SCI/Terre	NSF	U.S.-Argentina Cooperative Research on Conjugate Margins of Argentina and Antarctica	7,102
1071	Argentina	Earth SCI/Terre	NSF	U.S. - Argentina Cooperative Research on Permian Plants from Argentina and Antarctica: Distribution in Time and Space	8,520
1182	Argentina	Engineering	NSF	U.S.-Argentina Cooperative Research on the Polymerization of Olefins from the Gas Phase	7,267
1183	Argentina	Engineering	NSF	U.S.-Argentina Cooperative Research on Joint Research on Basic Properties of Superconductors	8,882
1184	Argentina	Engineering	NSF	US-Argentina Cooperative Research: Identification and Control of Systems with Memory	7,014
1185	Argentina	Engineering	NSF	U.S.-Argentina Cooperative Research: Synthesis and Characterization of Tailor-Made Copolymers	7,868
1186	Argentina	Engineering	NSF	U.S.-Argentina Cooperative Research: Basic Thermal Design Heat Exchangers	6,652
1187	Argentina	Engineering	NSF	U.S.-Argentina Cooperative Research: Theoretical Models for Radiation-Enhanced Diffusion During Ion Implantation	9,179
1188	Argentina	Engineering	NSF	U.S.-Argentina Cooperative Research on Magnetic Properties of High Temperature Superconductors	9,057
1189	Argentina	Engineering	NSF	Metal-Support Effects in Platinum/Zeolite-L Catalysts	106,177
1190	Argentina	Engineering	NSF	U.S. - Argentina Cooperative Research: Studies on the Robust Control of Chemical Processes	6,858
1264 *	Argentina	Engineering	NSF	U.S.-Argentina, U.S.-Brazil Cooperative Research on Preferred Oriented Surfaces and Amorphous Metallic Alloys as Electrocatalysts for Fuel Cells	5,000

<sup>1</sup> an asterisk denotes activities in more than one country.

## Science &amp; Technology Activities listed by Country -- NSF Activities

REF#	Country	Sector	Agency	Title of Activity	Funding
1279	Argentina	Mathematics	NSF	U.S.-Argentina Cooperative Research on numerical Approximations of Variational Inequalities	2,986
1280	Argentina	Mathematics	NSF	U.S.-Argentina Cooperative Research: Mathematical Analysis of Numeric Solutions in Computational Mechanics	3,333
1281	Argentina	Mathematics	NSF	U.S.-Argentina Cooperative Research: Catastrophic Instabilities in Square Wave Detonations	5,515
1297	Argentina	Other Life SCI	NSF	U.S.-Argentina Cooperative Research on Small Mammal Ecology in Argentine Deserts: Physiology, Population Biology, and Species Interactions	12,025
1298	Argentina	Other Life SCI	NSF	US-Argentina Cooperative Research on Regulation and Reaction Mechanisms of Key Enzymes of Photosynthesis	2,850
1299	Argentina	Other Life SCI	NSF	US-Argentina Cooperative Research on Regulation and Reaction Mechanisms of Key Enzymes of Photosynthesis	3,217
1300	Argentina	Other Life SCI	NSF	U.S.-Argentina Cooperative Research: Oxygen Radical Generation by Rat Liver Nuclei: Effect of Iron Complexes	6,110
1301	Argentina	Other Life SCI	NSF	U.S.-Argentina Cooperative Research on In-Vivo Cloning in Bacillus Subtilis	5,630
1302	Argentina	Other Life SCI	NSF	U.S. - Argentina Cooperative Research on Localization and Function of Isoforms of the Catalytic Subunit of the Na K-ATPase	9,930
1365 *	Argentina	Other Life SCI	NSF	Paleontology and Geochronology, of the Middle Miocene of South America	63,894
1385	Argentina	Physics	NSF	U.S.-Argentina Cooperative Research Program Concerning the Physics of Electron Ejection in High Velocity Ion-Atom and Ion-Solid Collisions	7,443
1386	Argentina	Physics	NSF	U.S.-Argentina Cooperative Research on Fermionic Models in Condensed Matter Physics and Field Theory	11,046
1387	Argentina	Physics	NSF	U.S.-Argentina Cooperative Research Evolution of Nuclear Spins in the Transitional Nuclei Around A=80,180	5,474
1388	Argentina	Physics	NSF	U.S.-Argentina Cooperative Research: Theoretical Studies of Rearrangement Processes in Ion-Atom & Ion-Molecular Collision	7,880
1487 *	Argentina	Space Sciences	NSF	U.S.-Brazil Cooperative Research: Redshift Survey of the Southern Skies	1,673
1389	Asia	Physics	NSF	Experimental Particle Physics	205,000
1363 *	Bahamas, The	Other Life SCI	NSF	Genetic Analysis and Population Structure of Spiny Lobsters in the Caribbean	2,658
1072	Bangladesh	Earth SCI/Terre	NSF	Sediment Accumulation and Strata Formation on the Bengal Shelf	58,906
1043	Barbados	Earth SCI/Ocean	NSF	Organized Island Wakes and the Retention and Recruitment of Larval Reef Fish	135,092
1073	Bolivia	Earth SCI/Terre	NSF	Cenozoic Chronology and Vertebrate Faunas of Bolivia	22,550
1074	Bolivia	Earth SCI/Terre	NSF	Petrogenetic Processes and Sources of Volcanic Rocks in the Central Andes: Constraints from Mafic Monogenetic Centers in Bolivia (Collaborative Research)	41,300
1075	Bolivia	Earth SCI/Terre	NSF	Petrogenetic Processes and Sources of Volcanic Rocks in the Central Andes: Constraints from Mafic Monogenetic Centers in Bolivia (Collaborative Research)	11,478
1303	Bolivia	Other Life SCI	NSF	Floristic Survey of the Yungas Valleys of La Paz, Bolivia	25,501
1304	Bolivia	Other Life SCI	NSF	Collaborative Research: Mammalian Diversity in Bolivia - The Yungas and Valles	55,701
1305	Bolivia	Other Life SCI	NSF	Collaborative Research: Mammalian Diversity in Bolivia - The Yungas and Valles	34,514
1004	Brazil	Chemistry	NSF	U.S.-Brazil Cooperative Research on Reactivity at Charged Interfaces in Aqueous Media	7,857
1005	Brazil	Chemistry	NSF	U.S.-Brazil Cooperative Research on Studies of Electron-Molecule Collisions and Molecular Photoionization	8,208
1006	Brazil	Chemistry	NSF	US-Brazil Cooperative Research on Characterization of Mixed Oxide Films	10,275
1007	Brazil	Chemistry	NSF	U.S.-Brazil Cooperative Research on Seven-Membered Rings Via Nitrenium Ions	7,688
1008	Brazil	Chemistry	NSF	U.S.-Brazil Cooperative Research: Theoretical Studies of the Electronic Structure of Molecules	5,110
1009	Brazil	Chemistry	NSF	U.S.-Brazil Science & Technology Initiative: Theoretical and Computational Studies of Electron-Molecule Collisions	4,639

Science & Technology Activities Listed by Country -- NSF Activities

REF#	Country	Sector	Agency	Title of Activity	Funding
1044	Brazil	Earth SCI/Ocean	NSF	The North Brazil Current: Dynamics and Role in the Equatorial Heat and Mass Balance	89,458
1045	Brazil	Earth SCI/Ocean	NSF	Diagenetic Processes and Authigenic Mineral Formation in Amazon Shelf Sediments	123,817
1046	Brazil	Earth SCI/Ocean	NSF	Physical Oceanography of the Amazon Frontal Zone	294,927
1047	Brazil	Earth SCI/Ocean	NSF	Evaluating the Effects of High Particulate Fluxes on Chemical Processes Occurring at the Amazon River/Ocean Boundary	14,248
1048	Brazil	Earth SCI/Ocean	NSF	Evaluating the Effects of High Particulate Fluxes on Chemical Processes Occurring at the Amazon River/Ocean Boundary	15,459
1049	Brazil	Earth SCI/Ocean	NSF	Evaluating the Effects of High Particulate Fluxes on Chemical Processes Occurring at the Amazon River/Ocean Boundary	17,459
1050	Brazil	Earth SCI/Ocean	NSF	U.S.-Brazil Cooperative Research on Dynamic Characteristics of Coastal Lagoons: Lagoa de Araruama, Rio de Janeiro	8,400
1051	Brazil	Earth SCI/Ocean	NSF	Lagrangian Floats for the WOCE Deep Basin Experiment	535,671
1062 *	Brazil	Earth SCI/Ocean	NSF	REU: Evaluating the Effects of High Particulate Fluxes on Chemical Processes Occurring at the Amazon River/Ocean Boundary	39,001
1063 *	Brazil	Earth SCI/Ocean	NSF	Evaluating the Effects of high Particulate Fluxes on Chemical Processes Occurring at the Amazon River/Ocean Boundary	20,568
1076	Brazil	Earth SCI/Terre	NSF	US-Brazil Cooperative Research on The Cause of Erosion and Deposition Cycles in Humid Landscapes: An Integrated Study of Process and Stratigraphy in Southeastern Brazil	10,000
1077	Brazil	Earth SCI/Terre	NSF	Geochemistry, Petrology and Geologic Setting of Selected Precambrian Banded Iron-Formations in the Quadrilatero Ferrifero, Minas Gerais, Brazil	57,800
1078	Brazil	Earth SCI/Terre	NSF	The Environmental History of the Amazon Rain Forest	120,000
1191	Brazil	Engineering	NSF	U.S.-Brazil Cooperative Research in Detection of Weakly Magnetic Fields and Fluctuations	8,422
1192	Brazil	Engineering	NSF	U.S.-Brazil Cooperative Research in Source Coding and Digital Phase Modulation	7,038
1193	Brazil	Engineering	NSF	U.S.-Brazil Cooperative Research on Interpenetrating Polymer Network Formation.	5,320
1194	Brazil	Engineering	NSF	US-Brazil Cooperative Research on A Modeling Environment for Performance/Reliability Analysis of Distributed Systems	9,535
1195	Brazil	Engineering	NSF	U.S.-Brazil Cooperative Science Research in the Study of Amorphous Hydrogenated Germanium	9,060
1196	Brazil	Engineering	NSF	U.S.-Brazil Cooperative Research on Internal Oxidation of Nb Alloys Containing Hf, Zr, and Ti	6,684
1197	Brazil	Engineering	NSF	Water Resources and Environmental Engineering	49,693
1264 *	Brazil	Engineering	NSF	U.S.-Argentina, U.S.-Brazil Cooperative Research on Preferred Oriented Surfaces and Amorphous Metallic Alloys as Electrocatalysts for Fuel Cells	5,000
1282	Brazil	Mathematics	NSF	U.S.-Brazil Cooperative Research in Differential Geometry	9,177
1283	Brazil	Mathematics	NSF	U.S.-Brazil Cooperative Research on Interacting Particle Systems and Hydrodynamic Limits	6,665
1284	Brazil	Mathematics	NSF	Cohen-Macaulay Algebras and the Computation of their Invariants	5,210
1285	Brazil	Mathematics	NSF	U.S.-Brazil Cooperative Research in Dynamical Systems	11,025
1286	Brazil	Mathematics	NSF	U.S.-Brazil Cooperative Research on Quantum Field Theory	5,105
1295 *	Brazil	Mathematics	NSF	Support of Latin American Participation in the Mathematical Logic Year at the Mathematical Sciences Research Institute in Berkeley, CA.	4,511
1306	Brazil	Other Life SCI	NSF	U.S.-Brazil Cooperative Research on The Medium Dependence of Biological Electron Transfer Reactions	5,776
1307	Brazil	Other Life SCI	NSF	U.S.-Brazil Cooperative Research: Calcium Transport Across Biological Membranes	9,060
1308	Brazil	Other Life SCI	NSF	U.S.-Brazil Cooperative Research on Characterization of Amorphous Occlusions in Citrus with Blight and Declínio	9,007
1309	Brazil	Other Life SCI	NSF	U.S.-Brazil Cooperative Research on the Biochemistry of Food Proteins	7,799
1310	Brazil	Other Life SCI	NSF	U.S.-Brazil Cooperative Research on Science Education	9,342
1311	Brazil	Other Life SCI	NSF	U.S.-Brazil Cooperative Research on Development of Axon Pathways in the Mammalian Visual System	8,750
1312	Brazil	Other Life SCI	NSF	Hydrology and Ecology of the Capoes De Aterro of the Pantanal of Mato Grosso	2,476

Science & Technology Activities listed by Country -- NSF Activities

REF#	Country	Sector	Agency	Title of Activity	Funding
1390	Brazil	Physics	NSF	U.S.-Brazil Cooperative Research on the Theory of Disordered Systems (Applied Mathematics)	4,951
1391	Brazil	Physics	NSF	U.S.-Brazil Cooperative Research: Inelastic Electron Scattering by Atomic and Diatomic Targets	6,290
1392	Brazil	Physics	NSF	U.S.-Brazil Cooperative Research: High-Temperature Superconductivity Research	7,095
1393	Brazil	Physics	NSF	U.S.-Brazil Cooperative Research in Atomic Collisions	4,095
1394	Brazil	Physics	NSF	U.S.-Argentina Cooperative Research: Theoretical Studies in Nuclear Structure Physics	7,300
1395	Brazil	Physics	NSF	U.S.-Brazil Cooperative Research on Electromagnetic Processes in Heavy-Ion Physics	4,620
1396	Brazil	Physics	NSF	Partial Financial Support of the Federation of Latin American Physical Societies, Rio de Janeiro, Brazil, 1990	15,000
1469	Brazil	Space Sciences	NSF	US-Brazil Cooperative Research on: Radio Continuum Emission Photodissociation and Photoionization in Comets	1,390
1487 *	Brazil	Space Sciences	NSF	U.S.-Brazil Cooperative Research: Redshift Survey of the Southern Skies	1,673
1079	Central America	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: The Location of Yucatan in the Late Paleozoic-Early Mesozoic	14,789
1080	Central America	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: The Location of Yucatan in the Late Paleozoic- Early Mesozoic	24,564
1010	Chile	Chemistry	NSF	Cooperative Research on Photoaffinic Labelling with Pyrene	5,875
1011	Chile	Chemistry	NSF	A Chemical Study of the Chilean Flora	8,700
1012	Chile	Chemistry	NSF	U.S.-Latin America Cooperative Research: Micellar and Metal-Ion Interactions with Terpenoid and Sugar Derivatives	6,394
1032	Chile	Earth SCI/Atmos	NSF	Mesoscale Cyclone Dynamics Around Antarctica	57,018
1052	Chile	Earth SCI/Ocean	NSF	Recording of Data and Sorting of Collections from Polar Regions	160,545
1053	Chile	Earth SCI/Ocean	NSF	Mathematical Models of Foraging Seabirds	63,998
1054	Chile	Earth SCI,Ocean	NSF	The Bahia Paraiso Oil Spill: Impact on a Southern Seabird Community	47,834
1055	Chile	Earth SCI/Ocean	NSF	Long-Term Ecological Research on the Antarctic Marine Ecosystem: An Ice-Dominated Environment	429,388
1056	Chile	Earth SCI/Ocean	NSF	Comparative Demography and Foraging Behavior of Pygoscelis Penguins	94,756
1081	Chile	Earth SCI/Terre	NSF	A Geophysical Survey of the Interaction between the Chile Ridge and Chile Trench	245,805
1082	Chile	Earth SCI/Terre	NSF	U.S.-Chile Cooperative Research in Crustal Deformation, Part II	9,584
1083	Chile	Earth SCI/Terre	NSF	A Collaborative Study of the Origins of Compositional and Mineralogical Zonation in La Gloria Pluton, Central Chilean Andes	7,328
1084	Chile	Earth SCI/Terre	NSF	Collaborative Study of Pliocene Andean Volcanism in the Vicinity of Santiago, Chile	5,950
1085	Chile	Earth SCI/Terre	NSF	Training Program in Biosocial Adaption: Assessment of Paleonutrition Techiques	41,400
1086	Chile	Earth SCI/Terre	NSF	Role of Predation and Plant-Small Mammal Interactions in the Chilean Mediterranean Scrub Zone.	76,463
1087	Chile	Earth SCI/Terre	NSF	Paleomagnetic Study of the Post-Cretaceous Displacement History of the Liquine-Ofqui Fault, Southern Chile	7,946
1198	Chile	Engineering	NSF	The Second Pan American Congress of Applied Mechanics (PACAM II): Valparaiso, Chile, January 2-5, 1991	20,250
1295 *	Chile	Mathematics	NSF	Support of Latin American Participation in the Mathematical Logic Year at the Mathematical Sciences Research Institute in Berkeley, CA.	4,511
1296 *	Chile	Mathematics	NSF	U.S.-Latin American Congress of Probability and Mathematical Statistics, Mexico City, September 24-29, 1990	4,250
1313	Chile	Other Life SCI	NSF	U.S.-Chile Cooperative Research on Proteoglycan Sulfotransferases	10,242
1314	Chile	Other Life SCI	NSF	U.S.-Chile Cooperative Research on the Dynamics of Guild Structure in an Assemblage of Predatory Vertebrates	6,455
1315	Chile	Other Life SCI	NSF	Genetic and Biochemical Studies of Lignolytic Bacteria	6,315
1316	Chile	Other Life SCI	NSF	Palo Podrido: A Unique Model to Study Selective Delignification of Wood	5,498

Science & Technology Activities listed by Country -- NSF Activities

REF#	Country	Sector	Agency	Title of Activity	Funding
1317	Chile	Other Life SCI	NSF	Fluorescence Studies of Dynamic Processes in Peroxidase hemeprotein	8,506
1318	Chile	Other Life SCI	NSF	A Comparison of the Influence of Fossorial Rodents on the Dynamics of Mediterranean Grassland Landscapes in Chile and California	8,417
1319	Chile	Other Life SCI	NSF	U.S.-Chile Cooperative Research on Characterization of the Human Peroxisomal Membrane	8,900
1470	Chile	Space Sciences	NSF	Presidential Young Investigator Award - Quasars, Active Galactic Nuclei, and Extragalactic Astronomy	55,534
1471	Chile	Space Sciences	NSF	Observational Studies of Massive Stars and Their Evolution in Galaxies	86,130
1472	Chile	Space Sciences	NSF	Quasi-Stellar Object (QSO) Investigations of the Universe at Large Redshifts	88,324
1473	Chile	Space Sciences	NSF	Study of Galaxy Evolution with Near Infrared Imaging	48,200
1474	Chile	Space Sciences	NSF	The Integrated Spectra of Stellar Systems	27,500
1475	Chile	Space Sciences	NSF	Cosmological Evolution of Active Galactic Nuclei, BL Lacertae Objects, and Clusters of Galaxies	41,050
1476	Chile	Space Sciences	NSF	Probes of the Broad Line Regions of Quasi-Stellar Objects (QSOs)	40,000
1477	Chile	Space Sciences	NSF	Collaborative Research on Study of Halo Cataclysmic Variables	32,950
1478	Chile	Space Sciences	NSF	Collaborative Research on High Galactic Latitude Cataclysmic Variables	18,500
1487 *	Chile	Space Sciences	NSF	U.S.-Brazil Cooperative Research: Redshift Survey of the Southern Skies	1,673
1488 *	Chile	Space Sciences	NSF	Star Clusters: Observing Stellar Evolution	19,350
1013	China	Chemistry	NSF	US-China Cooperative Research: Phase Equilibrium Studies: Si3 N4-Metal Oxide Systems	13,345
1014	China	Chemistry	NSF	U.S.-China Cooperative Research: Kinetics and Mechanisms of Oxygen Atom Transfer Reactions to Metal Carbonyls	8,882
1015	China	Chemistry	NSF	U.S.-China Cooperative Research: Preparation and Properties of Layered Organic Derivatives of Group IV Metals	9,442
1016	China	Chemistry	NSF	U.S.-China Cooperative Research (Chemistry): Dynamic Nuclear Polarization in Carbonaceous Solids	13,295
1033	China	Earth SCI/Atmos	NSF	China and America Air/Sea Experiments	100,000
1034	China	Earth SCI/Atmos	NSF	U.S.- China Cooperative Research (Climate): Cryosphere-Climate Interactions	49,987
1035	China	Earth SCI/Atmos	NSF	Lanthanide Optical Spectroscopy	15,232
1036	China	Earth SCI/Atmos	NSF	A Cooperative Paleoclimatic Study of the Guliya Ice Cap, China: Relationship to Global Climate Variability	121,800
1057	China	Earth SCI/Ocean	NSF	Hydrographic Observations for a Western Equatorial Pacific Ocean Circulation Study	93,500
1088	China	Earth SCI/Terre	NSF	U.S.-China Cooperative Research: Upper Mantle Stresses Beneath Eastern China	6,240
1069	China	Earth SCI/Terre	NSF	U.S.-China Cooperative Research: Plume-related Basalts from Hainan Island and Leizhou Peninsula, South China	18,972
1090	China	Earth SCI/Terre	NSF	Compressional and Extensional Tectonics of the Yunmeng Mountains, Huairou County, Northern China	42,489
1091	China	Earth SCI/Terre	NSF	U.S.-China Cooperative Research (Geology): Volcanology of Changpaishan, Jilin Province	29,597
1092	China	Earth SCI, Terre	NSF	U.S.-China Cooperative Research: Geochemistry and Origin of Archean Granulites in Northeastern China	30,648
1093	China	Earth SCI/Terre	NSF	U.S.-China Cooperative Research (Geol.): Geochemical Studies of the Massive Sulfide Gold Deposits of the Tongling District, Anhui, China	11,940
1094	China	Earth SCI/Terre	NSF	U.S.-China Cooperative Research: Xinjiang Magnetotelluric Transect	15,000
1095	China	Earth SCI/Terre	NSF	U.S-China Cooperative Research: The Use of Integrated Models To Manage Marginal Ecosystems in Gansu, China	10,628
1096	China	Earth SCI/Terre	NSF	US-China Cooperative Research: Permian Ammonoid Biofacies and Biostratigraphy of China and North America	18,770
1097	China	Earth SCI/Terre	NSF	U.S.-China Cooperative Research: Search for and Study of Impact Structures in China	8,690
1098	China	Earth SCI/Terre	NSF	US-China Cooperative Research (Biology): Frankia Diversity and Symbiotic Performance	18,147

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REF#	Country	Sector	Agency	Title of Activity	Funding
1099	China	Earth SCI/Terre	NSF	U.S.-China Cooperative Research: Transient Electromagnetic Research	8,865
1100	China	Earth SCI/Terre	NSF	U.S.-China Cooperative Science Research: High Energy Heavy Ion Research	8,030
1101	China	Earth SCI/Terre	NSF	U.S.-China Cooperative Research (Geology): Analysis of the Tectonic Origin and Stratigraphy of the Bohai Basin	15,432
1102	China	Earth SCI/Terre	NSF	United States-China Scientific Cooperative Project: A Petrotectonic Study of Precambrian Blueschist and Eclogite Belts in Central China	71,752
1103	China	Earth SCI/Terre	NSF	Paleozoic Paleogeography of China	49,824
1104	China	Earth SCI/Terre	NSF	Suspended Matter Transport in the Huanghe (Yellow River) Estuary	75,936
1105	China	Earth SCI/Terre	NSF	U.S.-China Cooperative Research (Physics): Multi-Particle Correlations in Relativistic Nucleus-Nucleus Collisions	12,908
1106	China	Earth SCI/Terre	NSF	Collaborative Research: Lithospheric Structure of the Tibetan Plateau	20,000
1107	China	Earth SCI/Terre	NSF	Collaborative Research: Lithospheric Structure of the Tibetan Plateau	20,000
1108	China	Earth SCI/Terre	NSF	Great Bahama Bank of Guizhou: History and Facies Geometry	45,550
1109	China	Earth SCI/Terre	NSF	U.S.-China Cooperative Research (Geology): Geological Study of the Tonghai-Jianshui-Kunming Area, Yunnan	12,843
1110	China	Earth SCI/Terre	NSF	Exploratory Research for U.S.-U.S.S.R. Cooperation in Ice Core Research in the Tien-Shan and Pamir Ranges	31,830
1111	China	Earth SCI/Terre	NSF	U.S.-China Cooperative Research (Physics): Search for Gravitational Radiation	16,212
1112	China	Earth SCI/Terre	NSF	Partial Support of the NSF/USGS Joint Hosting of the PRC Delegation, May 26 - June 10, 1990	10,000
1199	China	Engineering	NSF	U.S.-China Cooperative Research: Optimization of Real-Time Hydrothermal System Operation	24,832
1200	China	Engineering	NSF	Effect of Curing Regimens on Concrete Durability	116,639
1201	China	Engineering	NSF	U.S-China Cooperative Research (Materials): Combined High Resolution and Analytical Electron Microscopy of Phases Exhibiting Five-Fold Symmetry	11,194
1202	China	Engineering	NSF	U.S.-China Cooperative Research: Optimal Control Studies for Steamflooding	27,923
1203	China	Engineering	NSF	The Committee on Earthquake Engineering	136,000
1204	China	Engineering	NSF	US-China Cooperative Research (Eng.): Rheological Fracture and its Application to Concrete	10,856
1205	China	Engineering	NSF	Seismic Hazard Assessment: Spatial and Temporal Dependent Earthquake Processes	93,356
1206	China	Engineering	NSF	Collaborative Research: Strengthening of Nonductile Moment Resisting Frames	102,782
1207	China	Engineering	NSF	U.S.-China Cooperative Research: Effects of Fuel Properties and Physical Factors on Engine Combustion Processes	5,903
1208	China	Engineering	NSF	US-China Cooperative Research (Compisci): Cooperative Feedback Systems Research	9,924
1209	China	Engineering	NSF	An Investigation of Wind Effects on Structures	14,746
1210	China	Engineering	NSF	U.S.-China Cooperative Research (Materials Science): Casting Defect Formation Including Hot Tearing	12,790
1211	China	Engineering	NSF	Nonlinear PC-Windows Version of Program Combat	98,865
1212	China	Engineering	NSF	US-PRC Collaborative Research on Aseismic Hybrid Protective Systems for Tall Buildings	56,329
1213	China	Engineering	NSF	U.S.-China Cooperative Research (Engineering): Design of Manufacturing Information Systems	17,694
1214	China	Engineering	NSF	U.S.-China Cooperative Research: Two-Phase Flow Instability Studies	4,784
1215	China	Engineering	NSF	U.S.-China Cooperative Research (Materials Science): Computer Simulation of the Deformation of Short Range Ordered F.U.C.	8,090
1216	China	Engineering	NSF	U.S.-China Cooperative Research: Cylindrical Magnetron Plasma Modeling and Associated Laser Rate Equations	23,832
1217	China	Engineering	NSF	U.S.-China Cooperative Research: Microstructural Development During Solidification of Aluminum - Rare Earth Alloys	15,840

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REF#	Country	Sector	Agency	Title of Activity	Funding
1218	China	Engineering	NSF	U.S.-China Cooperative Research (Chemical Engineering): Studies of Acid Catalysts for Hydrocarbon Processing Reactions	13,968
1219	China	Engineering	NSF	U.S.-China Cooperative Research (Mechanical Engineering): Microstructure and Stress-Strain Behavior of Lcoss	4,215
1220	China	Engineering	NSF	Small Grant for Exploratory Research: Technology Constrained Process Planning	30,000
1221	China	Engineering	NSF	Hysteresis Rules and Design Parameters Assessment of RC Low-Rise Shear Walls and Buildings with Openings	104,874
1222	China	Engineering	NSF	Experimental & Analytical Studies of Reservoir Compressibility Effects on Arch Dams	74,467
1223	China	Engineering	NSF	U.S.-China Cooperative Research (Engineering): Theoretical Analysis and Experimental Investigation of Semi Rigid Steel Frames	15,452
1224	China	Engineering	NSF	U.S.-China Cooperative Research (Engineering): Optimum Dynamics Studies for Rotors and Mechanisms	13,321
1225	China	Engineering	NSF	U.S.-China Cooperative Research (Engineering): Study of Unresolved Problems of Transonic and Supersonic Equivalence Rules with Lift	12,912
1265 *	China	Engineering	NSF	4th International Colloquium on Structural Stability will be held in New York City on April 16-19, 1989	8,681
1287	China	Mathematics	NSF	U.S.-China Cooperative Research (Mathematics): Problems on Approximatic Theory and Its Applications	20,480
1288	China	Mathematics	NSF	U.S.-China Cooperative Research: Numerical and Analytical Studies in Nonlinear Waves	12,128
1289	China	Mathematics	NSF	U.S.-China Cooperative Research (Mathematics): Function Theoretic Methods in Partial Differential Equations	9,812
1320	China	Other Life SCI	NSF	U.S.-China Cooperative Research: Genetic and Evolutionary Studies of Populus of North America and China	15,101
1321	China	Other Life SCI	NSF	Mathematical Models of Selection and Interaction Among Populations	45,750
1322	China	Other Life SCI	NSF	U.S.-China Cooperative Research (Neurobiology): Mapping of Active Site Residues in the Erythrocyte Anion Exchange Protein	14,804
1323	China	Other Life SCI	NSF	US-China Cooperative Research (Biol.): Regulation of Plant Enzymes	11,951
1324	China	Other Life SCI	NSF	U.S.-China Cooperative Research: Holocene Environmental History of the Kunming Lake District as Recorded in Lake Sediments	38,736
1325	China	Other Life SCI	NSF	U.S. - China Cooperative Research: Genetics of Chinese and American Kelps	25,558
1326	China	Other Life SCI	NSF	US-China Cooperative Research Programs: Cytosystematics of Cyprinid Fishes	10,050
1327	China	Other Life SCI	NSF	REU: The Cranial Structure of Chinese Liassic Mammals and Tritylodontids	52,000
1328	China	Other Life SCI	NSF	US-China Coop Research: Occurrence and Distribution of Toxic Cyanobacteria(blue-green algae) in China: Isolation & Characterization of Toxins and Their Role in Waterbased Diseases	13,922
1329	China	Other Life SCI	NSF	U.S.-China Cooperative Research: Trans-Pacific Comparisons of Juniperus Species Using Micromolecular and Macromolecular Data	16,122
1330	China	Other Life SCI	NSF	Flora of China Project to Translate, Revise, and Computerize the Florae Reipublicae Popularis Sinicae	165,806
1331	China	Other Life SCI	NSF	U.S.-China Cooperative Research: Establishment of International Protein Structure Database	9,278
1332	China	Other Life SCI	NSF	U.S.-China Cooperative Research (Biology): Determinants of Lifetime Reproductive Success in the Small Mammal, the Black-Lipped Pika	22,739
1333	China	Other Life SCI	NSF	U.S.-China Cooperative Research (Biology): Determinants of Lifetime Reproductive Success in the Small Mammal, the Black-Lipped Pika	18,487
1397	China	Physics	NSF	U.S.-China Cooperative Research: Temperature Dependence of Dynamical Symmetry Breaking and Bifurcation	11,298

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REF#	Country	Sector	Agency	Title of Activity	Funding
1398	China	Physics	NSF	U.S.-China Cooperative Research: Independent Particle and Quantum Defect Approaches to Photoionization & Photon Scattering	12,745
1399	China	Physics	NSF	U.S.-China Cooperative Research: Improvement of Amorphous Silicon Semiconductors	14,070
1400	China	Physics	NSF	U.S.-China Cooperative Research (Material Science): Novel Phenomena in Electron Transport	19,524
1401	China	Physics	NSF	U.S.-China Cooperative Research (Solid State Physics): Electronic Transport in Amorphous Silicon Multilayers	12,380
1402	China	Physics	NSF	US - China Cooperative Research (Physics): Study of Very High Energy Light Particle Production in Heavy - Ion Collisions using BGO Glass Scintillator Detectors	10,795
1403	China	Physics	NSF	U.S.-China Cooperative Research: Electron Impact Cross Sections for Modeling Radiation Damage: The Water Molecule	9,412
1404	China	Physics	NSF	U.S.-China Cooperative Research: Search for Fractionally Charged Nuclei with Glass Detectors	36,020
1405	China	Physics	NSF	U.S.-China Cooperative Research: Growth Kinetics and Morphological Stability of Crystals	11,440
1406	China	Physics	NSF	US-China Cooperative Research: Dynamical Correlation of Atomic Processes	11,578
1407	China	Physics	NSF	US-China Cooperative Research: Atomic Processes In Muon-Catalyzed Fusion	17,608
1408	China	Physics	NSF	U.S.-China Cooperative Research (Physics): Studies of Nuclear Structure Physics	4,000
1440	China	Social Sciences	NSF	U.S.-China Cooperative Research (Economic): Reform and Productivity in China's Industrial Economy	34,550
1441	China	Social Sciences	NSF	Urban Heavy Rescue Following Earthquakes	21,432
1442	China	Social Sciences	NSF	U.S.-China Cooperative Research (Geography): Data Acquisition and Research Agenda of Contemporary Urban China	16,178
1443	China	Social Sciences	NSF	Local Earthquake Mitigation and Preparedness Planning in China and the United States	121,274
1444	China	Social Sciences	NSF	U.S.-China Cooperative Research (Political Science): Local Political Reform in China	75,000
1445	China	Social Sciences	NSF	U.S.-China Cooperative Research (Sociology): Modeling the Health Transition: An Analysis of the Consequences of Socioeconomic and Demographic Changes in China	18,574
1446	China	Social Sciences	NSF	U.S.-China Cooperative Research (Sociology): Status Attainment in a Chinese Urban Area	20,863
1447	China	Social Sciences	NSF	U.S.-China Cooperative Research (Geography): Modeling and Measuring the Bidirectional Reflectance of Forest and Crop Canopies Using Boolean and Geometric Optics	48,454
1479	China	Space Sciences	NSF	U.S.-China Cooperative Research (Astrophysics): Radio Studies of Burst of Star Formation in Clumpy Irregular Galaxies	9,719
1480	China	Space Sciences	NSF	U.S.-China Cooperative Research (Astronomy): Joint Observations of the Long-Term Evolution of Solar Magnetic Fields	19,309
1481	China	Space Sciences	NSF	U.S.-China Cooperative Research (Astronomy): Quasar Absorption Lines: Physical Conditions in the Early Universe	12,106
1062 *	Colombia	Earth SCI/Ocean	NSF	REU: Evaluating the Effects of High Particulate Fluxes on Chemical Processes Occurring at the Amazon River/Ocean Boundary	39,002
1063 *	Colombia	Earth SCI/Ocean	NSF	Evaluating the Effects of High Particulate Fluxes on Chemical Processes Occurring at the Amazon River/Ocean Boundary	20,569
1113	Colombia	Earth SCI/Terre	NSF	Geology and Recent Volcanology of Nevado del Ruiz Volcano, Colombia	25,300
1114	Colombia	Earth SCI/Terre	NSF	The Recent Geological Evolution and Current Activity of Galeras Volcano, Narino Colombia (South America)	8,900
1115	Colombia	Earth SCI/Terre	NSF	Microevolution by Natural Selection in Disturbed Tropical Habitats	13,700
1290	Colombia	Mathematics	NSF	Science in Developing Countries: Orthogonal Polynomials, Differential Equations, and Difference Equations	3,922
1295 *	Colombia	Mathematics	NSF	Support of Latin American Participation in the Mathematical Logic Year at the Mathematical Sciences Research Institute in Berkeley, CA.	4,511

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REF#	Country	Sector	Agency	Title of Activity	Funding
1365 *	Colombia	Other Life SCI	NSF	Paleontology and Geochronology of the Middle Miocene of South America	63,894
1448	Colombia	Social Sciences	NSF	U.S.-Japan Cooperative Research: The La Venta Fossil Primates	5,317
1017	Costa Rica	Chemistry	NSF	Chemistry of Plant-Insect Interactions in Costa Rica	8,770
1116	Costa Rica	Earth SCI/Terre	NSF	Biological Control of Soil Charge Properties and Nutrient Retention in Variable Charge Soils of the Humid Tropics	225,000
1117	Costa Rica	Earth SCI/Terre	NSF	Geomorphic Evidence for Crustal Uplift Adjacent to a Subducting Aseismic Ridge, Pacific Coast of Costa Rica	10,440
1118	Costa Rica	Earth SCI/Terre	NSF	CRB: Plant Longevity and Life-form Diversity in Reconstructed Tropical Ecosystems	130,000
1155 *	Costa Rica	Earth SCI/Terre	NSF	CRB/RUI: Population Biology of Tropical Rain Forest Trees	50,950
1156 *	Costa Rica	Earth SCI/Terre	NSF	Collaborative Research: Soil Organic Matter in the Tropics: Determinants and Consequences	75,000
1157 *	Costa Rica	Earth SCI/Terre	NSF	Collaborative Research: Soil Organic Matter in the Tropics: Determinants and Consequences	40,000
1334	Costa Rica	Other Life SCI	NSF	The Moth Fauna of Costa Rica	117,578
1335	Costa Rica	Other Life SCI	NSF	Administration, Maintenance and Development of the La Selva Biological Station, Puerto Viejo de Sarapiquí, Costa Rica	287,814
1336	Costa Rica	Other Life SCI	NSF	The Caddisflies, or Trichoptera, of Costa Rica	74,152
1337	Costa Rica	Other Life SCI	NSF	Manual to the Plants of Costa Rica - Phase 2	264,186
1409	Costa Rica	Physics	NSF	Fundamental Studies of Ultra-thin Magnetic Films	5,625
1410	Costa Rica	Physics	NSF	Studies in Flux Motion in High Temperature Superconductors	6,900
1466 *	Costa Rica	Social Sciences	NSF	Coffee and Politics in Central America: The Coffee Elites of El Salvador, Costa Rica, and Nicaragua	9,942
1037	Ecuador	Earth SCI/Atmos	NSF	Collaborative Research: Climatic History of the Western Amazon Basin and the Equatorial Andes Since 18k	41,035
1119	Ecuador	Earth SCI/Terre	NSF	Collaborative Research: Archaeomagnetic Investigations of Geomagnetic field Behavior in North and South America	45,742
1338	Ecuador	Other Life SCI	NSF	Ecuador and Galapagos Island Research: The Evolution of Cooperative Breeding in Tropical Raptors	10,000
1018	Egypt	Chemistry	NSF	Mechanisms of Catalytic Copper-Dioxygen Reactions U.S.-Egypt Cooperative Research: Science in Developing Countries	10,000
1019	Egypt	Chemistry	NSF	A New Strategy for Mild, Continuous Solution and Solid Phase Peptide Synthesis (U.S.-Egypt Cooperative Science: Science in Developing Countries)	9,999
1120	Egypt	Earth SCI/Terre	NSF	Earthquake Studies at Aswan Reservoir, Egypt	11,658
1121	Egypt	Earth SCI/Terre	NSF	Production of Lithologic and Structural Maps from Digital Landsat Thematic Mapper Data Over the Eastern Desert, in Egypt	20,000
1122	Egypt	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: Uplift History of the Red Sea Margin in Egypt and Sudan from Fission Track Analysis and Its Implications for Rift Propagation	52,499
1226	Egypt	Engineering	NSF	Research in Channel Bed Degradation of the River Nile as a Consequence of the High Aswan Dam	4,800
1227	Egypt	Engineering	NSF	Pharmaceutical Production by Immobilized Cells	20,000
1339	Egypt	Other Life SCI	NSF	Administrative and Technical Management of NSF Program Activities within Egypt	14,545
1340	Egypt	Other Life SCI	NSF	Selection Trials for Effective Nitrogen-fixing Casuarinas for Egypt (U.S.-Egypt Cooperative Science: Science in Developing Countries).	5,633
1449	Egypt	Social Sciences	NSF	Influence Of Industrialization On Social And Economic Security (U.S.-Egypt Cooperative Science: Science In Developing Countries)	13,333
1466 *	El Salvador	Social Sciences	NSF	Coffee and Politics in Central America: The Coffee Elites of El Salvador, Costa Rica, and Nicaragua	9,942
1291	Ghana	Mathematics	NSF	U.S.-Ghana Cooperative Research: A Rational Approximation in Strictly Pseudoconvex Domains	6,830
1123	Guatemala	Earth SCI/Terre	NSF	Collaborative Paleomagnetic Research in Santa Maria Volcano, Guatemala	8,973
1364 *	Guatemala	Other Life SCI	NSF	Flora Mesoamericana - Phase 3	54,998
1341	Guyana	Other Life SCI	NSF	Scientific Visit to Develop a Proposal on Chemistry, Biological Activity and Ethnopharmacology of Natural Products in Guyana	2,000
1020	India	Chemistry	NSF	Study of Fluorine Compounds, Award in Indian Currency	18,604

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REF#	Country	Sector	Agency	Title of Activity	Funding
1021	India	Chemistry	NSF	Study of Fluorine Compounds, Award in U.S. and Indian Currencies	2,794
1022	India	Chemistry	NSF	A Chemical Examination of Himalyan Aconitum Species, A Cooperative Project at the University of Georgia, Award in U.S. and Indian Currencies	5,970
1124	India	Earth SCI/Terre	NSF	Field Studies in India: Mafic Rocks and Mantle Xenoliths, Award in Indian Currency	5,625
1125	India	Earth SCI/Terre	NSF	Plumage Patterns and Speciation in the Avian Genus Phylloscopus, Award in Indian Currency	12,453
1126	India	Earth SCI/Terre	NSF	Isotopic and Chemical Studies of Mafic Rocks from India	4,500
1127	India	Earth SCI/Terre	NSF	Project Crumansonata-Studies of Mafic Dike Swarms and Interplate Lineament Evolution, India, Award in U.S. and Indian Currencies	54,428
1128	India	Earth SCI/Terre	NSF	Cooperative Colony Foundation in Desert Ants	61,423
1129	India	Earth SCI/Terre	NSF	Collaborative Research: Geodetic Investigations of Oblique Plate Convergence in Sumatra	15,182
1130	India	Earth SCI/Terre	NSF	Crustal Genesis and Mineralization in the Eastern Dharwar Craton, South India, Award in Indian Currency	25,020
1131	India	Earth SCI/Terre	NSF	Crustal Genesis and Mineralization in the Eastern Dharwar Craton, South India, Award in U.S. and Indian Currencies	23,300
1155 *	India	Earth SCI/Terre	NSF	CRB/RUI: Population Biology of Tropical Rain Forest Trees	50,950
1228	India	Engineering	NSF	Presidential Young Investigator Award: PRC Supplement for Student or Researcher	63,040
1229	India	Engineering	NSF	Pressurized Fluidized Bed Combustion of Low-Grade Coal, Award in Indian and U.S. Currencies	43,988
1230	India	Engineering	NSF	Electrochemical Mechanisms of Reinforced Concrete Degradation	99,140
1231	India	Engineering	NSF	Studies on Particle-Bubble Interaction in Relation to Fine Particle Flotation, Award in U.S. and Indian Currencies	13,973
1232	India	Engineering	NSF	Pressurized Fluidized Bed Combustion of Low - Grade Coal, Award in Indian Currency	64,763
1233	India	Engineering	NSF	Studies on Particle-Bubble Interaction in Relation to Fine Particle Flotation, Award in Indian Currency	14,118
1234	India	Engineering	NSF	Earthquake Analysis, Design and Safety Evaluation of Concrete Dams and Intake-Outlet Towers	131,064
1235	India	Engineering	NSF	Research On Novel Oxide Materials, Award in Indian Currency	39,000
1236	India	Engineering	NSF	Fundamental Research on Net Shaping of New Products, Award in U.S. and Indian Currencies	55,655
1237	India	Engineering	NSF	Direct Iron and Steel Making Technologies and Clean Steel, Award in Indian Currency	28,725
1238	India	Engineering	NSF	Direct Iron and Steelmaking and Clean Steel Technologies, Award in U.S. and Indian Currencies	55,819
1239	India	Engineering	NSF	Fundamental Research on Netshaping and New Products, Award in Indian Currency	28,784
1240	India	Engineering	NSF	Numerical Modeling of Complex Flows with Heat Transfer, Award in Indian and U.S. Currencies	9,619
1241	India	Engineering	NSF	Knowledge-Based Expert Systems for Civil Engineering, Award in Indian and U.S. Currencies	11,876
1242	India	Engineering	NSF	Numerical Modelling of Complex Flows with Heat Transfer, Award in Indian Currency	34,095
1243	India	Engineering	NSF	Research on Novel Oxide Materials, Indo-U.S. Collaboration	10,922
1244	India	Engineering	NSF	Theoretical and Experimental Studies of Run-Off Estimation Based on Remote Sensing, Award in U.S. and Indian Currencies	31,238
1245	India	Engineering	NSF	Residual Strength of Delaminated Composite Panels Under Compressive Loads, Awarded in U.S. and Indian Currencies	12,490
1246	India	Engineering	NSF	Knowledge-Based Expert Systems for Civil Engineering, Award in Indian Currency	46,659
1247	India	Engineering	NSF	Residual Strength of Delaminated Composite Panels Under Compressive Loads, Award in Indian Currency	20,894
1248	India	Engineering	NSF	Theoretical and Experimental Studies of Run-Off Estimation Based on Remote Sensing, Award in Indian Currency	33,655
1249	India	Engineering	NSF	Long & Medium Term Research: Transport of Fluid and Macromolecules in Polymeric Gels	23,050
1250	India	Engineering	NSF	Leaching of Nickel Copper Iron Sulfides in Cupric Chloride Media, Award in U.S. and Indian Currencies.	12,210

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REF#	Country	Sector	Agency	Title of Activity	Funding
1251	India	Engineering	NSF	Study of Dynamic Fracture of Composite Materials, Award in U.S. and Indian Currencies	5,554
1252	India	Engineering	NSF	Study of Dynamic Fracture of Composite Materials, Award in Indian Currency	21,569
1253	India	Engineering	NSF	Study of Relationships of Particle Morphology and Process Parameters to the Physical Properties of Products in Powder Metallurgy, Award in Indian Currency	36,471
1254	India	Engineering	NSF	Study of Relationships of Particle Morphology and Process Parameters to the Physical Properties of Products in Powder Metallurgy, Award in U.S. and Indian Currencies	5,334
1273	India	Environment	NSF	Study of the Atmospheric Boundary Layer Turbulence Processes in the Tropics, Dispersion Parameters Experiments, Award in Indian Currency	38,627
1274	India	Environment	NSF	Study of the Atmospheric Boundary Layer Turbulence Processes in the Tropics, Dispersion Parameters Experiments, Award in U.S. and Indian Currencies	57,193
1342	India	Other Life SCI	NSF	SFC Award (Indian Currency) to Translate Foreign Scientific and Technical Literature into English	310,624
1343	India	Other Life SCI	NSF	Support of Activities under the Indo-U.S. Science and Technology Initiative in the Area of Photovoltaics	20,225
1344	India	Other Life SCI	NSF	Rhesus Maternal Care in Relation to Population Growth, Award in U.S. and Indian Currencies	5,369
1345	India	Other Life SCI	NSF	Monitoring Gene Changes Following Long-Term Seed Storage, Award in U.S. and Indian Currencies	16,765
1346	India	Other Life SCI	NSF	Social Biology of Ropalidia Montana, Award in Indian Currency	1,500
1347	India	Other Life SCI	NSF	Interactions of Specific Ligands with Proteins from Peanut, Sunflower Seed, Safflower Seed and Sesame Seed, Award in U.S. and Indian Currencies	11,942
1348	India	Other Life SCI	NSF	Interaction of Specific Ligands with Proteins from Peanut, Sunflower Seed, Safflower Seed and Sesame Seed, Award in Indian Rupees	23,529
1411	India	Physics	NSF	Investigations in Supernova Physics, Award in Indian Currency	18,775
1412	India	Physics	NSF	Investigation in Supernova Physics, Award in U.S. and Indian Currencies	17,021
1413	India	Physics	NSF	Investigations on the Primary Interactions of Gamma Rays with Matter, Studies of Elastic Photon Atom Scattering, Award in U.S. and Indian Currencies	12,460
1414	India	Physics	NSF	Comprehensive Study of Direct Photon Production in Hadron Induced Collisions, Award in Indian and U.S. Currencies	68,086
1415	India	Physics	NSF	Investigations on the Primary Interactions of Gamma Rays with Matter, Studies of Elastic Photon Atom Scattering, Award in Indian Currency	17,418
1416	India	Physics	NSF	Transport Properties of Sol Gel Derived Glasses, Award in U.S. and Indian Currencies	18,388
1417	India	Physics	NSF	Comprehensive Study of Direct Photon Production in Hadron Induced Collisions, Award in Indian Currency	44,694
1418	India	Physics	NSF	Transport Properties of Sol Gel Derived Glasses, Award in Indian Currency	27,118
1419	India	Physics	NSF	Microscopic Theory of Hypernuclei, Award in U.S. and Indian Currencies	14,100
1420	India	Physics	NSF	Microscopic Theory of Hypoernuclei, Award in Indian Currency	53,380
1421	India	Physics	NSF	Control of Disruptions in Aditya Tokamak/Guest Scientist Award in India Currency.	19,891
1422	India	Physics	NSF	Quantum Photophysics of Atoms, Molecules, and Surfaces, Award in U.S. and Indian Currencies.	33,139
1423	India	Physics	NSF	Elastic and Inelastic Scattering of Gamma Rays, Award in U.S. and Indian Currencies	17,000
1450	India	Social Sciences	NSF	Excavations at Rojdi: The Investigation of an Harrapan Town Award in Indian Currencies	44,305
1451	India	Social Sciences	NSF	Social Structure and Dispute Settlement, Award in Indian and U.S. Currencies	11,092

Science & Technology Activities listed by Country -- NSF Activities

REF#	Country	Sector	Agency	Title of Activity	Funding
1452	India	Social Sciences	NSF	Collaboration of Indian and American Research Scholars in the Natural and Social Sciences, Award in US and Indian Currencies	143,150
1453	India	Social Sciences	NSF	Decision Support System for Improving the Locational Efficiency of Service Systems, Award in U.S. and Indian Currencies	16,521
1454	India	Social Sciences	NSF	Decision Support System for Improving Locational Efficiency of Service Systems, Award in Indian Currency	29,333
1455	India	Social Sciences	NSF	Support for Research of U.S. Scientists Working in India, Award in U.S. and Indian Currencies	179,772
1456	India	Social Sciences	NSF	Fact-finding Evaluation and the Ordering of Speaking Turns in Legal Settings	31,826
1457	India	Social Sciences	NSF	Support of American Scholars in the Natural and Social Sciences in Collaborative Research in India, Award in U.S. and Indian Currencies	41,294
1458	India	Social Sciences	NSF	Cultural Values and the Transformation of the Soviet Union	12,700
1482	India	Space Sciences	NSF	A Catalog of Seyfert, Nuclei, N Systems and Active Galactic Nuclei	12,029
1483	India	Space Sciences	NSF	Measurement and Analysis of Kodaikanal Solar Images, Award in U.S. and Indian Currencies	15,618
1484	India	Space Sciences	NSF	Measurement and Analysis of Kodaikanal Solar Images, Award in Indian Currency	16,533
1485	India	Space Sciences	NSF	Study of Solar Oscillations Phase I, Site Evaluation, Award in Indian Currency	20,588
1486	India	Space Sciences	NSF	Study of Solar Oscillations Phase I, Site Evaluation, Award in U.S. and Indian Currencies	6,973
1488 *	India	Space Sciences	NSF	Star Clusters: Observing Stellar Evolution	19,350
1058	Indonesia	Earth SCI/Ocean	NSF	Low-Latitude Western Boundary Currents in the Pacific Ocean	116,483
1061 *	Indonesia	Earth SCI/Ocean	NSF	REU: Low-Latitude Western Boundary Currents in the Pacific Ocean	129,354
1132	Indonesia	Earth SCI/Terre	NSF	Collaborative Research: Geodetic Investigations of Oblique Plate Convergence in Sumatra	48,160
1133	Indonesia	Earth SCI/Terre	NSF	Materials Science Approach to Volcanic Eruption Prediction	87,566
1134	Indonesia	Earth SCI/Terre	NSF	U.S.-Indonesia Cooperative Research: Geodetic Investigation of Oblique Plate Convergence in Sumatra	12,500
1255	Indonesia	Engineering	NSF	U.S.-Indonesia Cooperative Research: A Quasi-Three Dimensional Groundwater Optimization Model of the Jakarta Basin	10,399
1256	Indonesia	Engineering	NSF	U.S.-Indonesia Cooperative Research in Boundary Element Methods in Acoustics	10,452
1459	Indonesia	Social Sciences	NSF	U.S.-Indonesia Cooperative Research: Employment Decisions, Mobility, and Enterprise Development in Indonesian Transmigration.	37,114
1059	Israel	Earth SCI/Ocean	NSF	A Theoretical Investigation of the General Circulation, Deep Convection and Mesoscale Processes of the Mediterranean Sea	126,102
1135	Israel	Earth SCI/Terre	NSF	Characterization and Detection of Mantle Discontinuities (A Collaborative Effort)	15,800
1263 *	Israel	Engineering	NSF	Presidential Young Investigator Award	19,358
1362 *	Israel	Other Life SCI	NSF	Active Site of Beta-Lactamases	9,990
1460	Israel	Social Sciences	NSF	Collaborative Research on the Political Economy of Military Spending in the Developing World	34,632
1461	Israel	Social Sciences	NSF	Topics in Game Theory	109,879
1136	Jamaica	Earth SCI/Terre	NSF	Collaborative Research: Ecology of Migratory Passerine Birds on Breeding and Wintering Areas - Demographic and Experimental Studies	101,000
1137	Jamaica	Earth SCI/Terre	NSF	REU: Collaborative Research: Ecology of Migratory Passerine Birds on Breeding and Wintering Areas - Demographic and Experimental Studies	61,860
1257	Jamaica	Engineering	NSF	U.S. National Committee for the Decade for Natural Disaster Reduction	172,403
1363 *	Jamaica	Other Life SCI	NSF	Genetic Analysis and Population Structure of Spiny Lobsters in the Caribbean	2,658
1465 *	Jamaica	Social Sciences	NSF	Reconstruction Following Hurricane Gilbert	7,500
1258	Jordan	Engineering	NSF	U.S.- Jordan Cooperative Research: Electrical Studies of Ferroelectric Thin Films	13,350

Science & Technology Activities listed by Country -- NSF Activities

REF#	Country	Sector	Agency	Title of Activity	Funding
1362 *	Jordan	Other Life SCI	NSF	Active Site of Beta-Lactamases	9,990
1138	Kenya	Earth SCI/Terre	NSF	Collaborative Research on the Persistence of a Pastoral Ecosystem	411,000
1139	Kenya	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya Rift International Project - An International Cooperative Experiment Explosion Studies	38,341
1140	Kenya	Earth SCI/Terre	NSF	Resource Distribution and Population Monitoring	99,112
1141	Kenya	Earth SCI/Terre	NSF	1989-1990 Kenya Rift International Seismic Project (KRISP)	37,125
1142	Kenya	Earth SCI/Terre	NSF	SGER: Emergency Studies of Species Extinctions and Limnological Changes in Lake Victoria	26,667
1151 *	Kenya	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya Rift International Project Seismic Array Studies	36,650
1152 *	Kenya	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya Rift International Seismic Project - An International Cooperative Experiment: Seismic Array Study	36,595
1153 *	Kenya	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya Rift International Seismic Project, An International Cooperative Experiment	48,606
1154 *	Kenya	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: KRISP 88-89: Kenya International Seismic Project - An International Cooperative Experiment	21,854
1349	Kenya	Other Life SCI	NSF	Field Study of Mammalian Behavioral Development	118,528
1462	Kenya	Social Sciences	NSF	Ironworking And Culture Change Among the Swahili of Kenya	5,975
1060	Kiribati	Earth SCI/Ocean	NSF	A Study of Seasonal and Interannual Variations of Synoptic Oscillations in the Central Equatorial Pacific	52,768
1292	Latin America	Mathematics	NSF	Collaborative Research: Foundations of Risk and Decision Analysis: Theoretical Empirical Investigations	53,022
1350	Latin America	Other Life SCI	NSF	REU: Collaborative Research: Revisionary Studies in Bromeliaceae Subfamily Tillandsioideae	37,301
1023	Malaysia	Chemistry	NSF	US-Malaysia Cooperative Research: Elemental Analysis of Geological Materials by Glow Discharge Methods	9,750
1038	Malaysia	Earth SCI/Atmos	NSF	A High Volume Particle Spectrometer for Atmospheric Research	124,319
1351	Malaysia	Other Life SCI	NSF	U.S.-Malaysia Seminar on Innovation and Commercialization in Research, Kuala Lumpur, September 9, 1990	2,719
1352	Malaysia	Other Life SCI	NSF	U.S.-Malaysia Seminar on Biodiversity, Kuala Lumpur, June 6-12, 1990	33,247
1353	Malaysia	Other Life SCI	NSF	United States-Malaysia Seminar on Innovation and Commercialization in Research, Kuala Lumpur, Malaysia, November 12-16, 1990	43,868
1424	Malaysia	Physics	NSF	U.S.-Malaysia Cooperative Research on Threshold Region Elastic Photon Atom Scattering	10,165
1143	Maldives	Earth SCI/Terre	NSF	Periplatform Environments and Sediments of the Maldivian	56,451
1024	Mexico	Chemistry	NSF	U.S.-Mexico Cooperative Research: Chalcogenide Reagents for the Preparation of Infrared Sensitive Materials	7,270
1025	Mexico	Chemistry	NSF	U.S.-Mexico Cooperative Research on Silicon and Germanium Metal Complexes	6,785
1026	Mexico	Chemistry	NSF	U.S.-Mexico Collaborative Research: Alignment Measured Through Fluorescence Detection	3,680
1027	Mexico	Chemistry	NSF	U.S.-Mexico Cooperative Research: Hydrolysis of Phosphate Esters of Theoretical Study	8,908
1144	Mexico	Earth SCI/Terre	NSF	U.S.-Mexico Collaborative Research: Study of Benioff Zone Geometry and Stresses at the Tehauntepec, Mexico Transition Zone along the Middle America Trench	13,434
1145	Mexico	Earth SCI/Terre	NSF	Collaborative Research: mtDNA and the Evolution of Fishes	33,445
1146	Mexico	Earth SCI/Terre	NSF	U.S. - Mexico Cooperative Research: Volcanic Risk Evaluation of the Colima and Popocatepetl Volcanoes	10,125
1147	Mexico	Earth SCI/Terre	NSF	US-Mexico Cooperative Research: Geomagnetic Paleointensity Determinations on Historic Lava Flows	5,417
1148	Mexico	Earth SCI/Terre	NSF	Collaborative Research: Asymmetrical Gene Flow Between European and African Honey Bee Populations	91,000
1149	Mexico	Earth SCI/Terre	NSF	Collaborative Research: Integrated Field and Laboratory Studies of Foraminiferal Taphonomy in Quaternary Carbonate and Siliclastic Depositional Environments	46,392
1150	Mexico	Earth SCI/Terre	NSF	Collaborative Research: Integrated Field and Laboratory Studies of Foraminiferal Taphonomy in Quaternary Carbonate and Siliclastic Depositional Environments	43,616

Science & Technology Activities listed by Country -- NSF Activities

REF#	Country	Sector	Agency	Title of Activity	Funding
1259	Mexico	Engineering	NSF	Inelastic Response and Collapse of Steel Building Structures Subjected to Multicomponent Seismic Excitations (Collaborative Research)	46,129
1260	Mexico	Engineering	NSF	U.S.-Mexico Collaborative Research: Electron Microscopy of Catalyst Particles	9,500
1261	Mexico	Engineering	NSF	U.S.-Mexico Collaborative Research on Nucleate Boiling	7,181
1262	Mexico	Engineering	NSF	A Scientific Visit to Establish Collaboration in Robotics Research Between the University of Illinois and CINVESTAV: Mexico City, Mexico, January 11-25, 1991	1,815
1275	Mexico	Environment	NSF	Shipboard Technician Support	233,251
1293	Mexico	Mathematics	NSF	U.S.-Mexico Collaborative Research: Bursting Electrical Activity of Excitable Cells: Mathematical Models Based on Averaged Slow Dynamics	2,325
1294	Mexico	Mathematics	NSF	U.S.-Mexico Cooperative Research: Development and Application of Numerical Techniques for Groundwater Simulation	5,468
1296 *	Mexico	Mathematics	NSF	U.S.-Latin American Congress of Probability and Mathematical Statistics, Mexico City, September 24-29, 1990	4,250
1354	Mexico	Other Life SCI	NSF	U.S.-Mexico Cooperative Research: Effects of Prostaglandin B1 Oligomers on Membrane Ca <sup>2+</sup> -ATPase	4,536
1355	Mexico	Other Life SCI	NSF	U.S.-Mexico Collaborative Research: Biochemical Basis and Function of Stress-Induced Betaine Accumulation in Maize	8,302
1356	Mexico	Other Life SCI	NSF	US-Mexico Cooperative Research: cGMP Regulated Ionic Channels in Sperm	5,278
1357	Mexico	Other Life SCI	NSF	U.S.-Mexico Collaborative Studies on Determinants of Distribution in Piper Species from a Tropical Rain Forest	9,750
1358	Mexico	Other Life SCI	NSF	Collaborative Research: Cactophilic Drosophila Epicuticular Hydrocarbon System	40,558
1359	Mexico	Other Life SCI	NSF	Collaborative Research: Cactophilic Drosophila Epicuticular Hydrocarbon System	34,442
1360	Mexico	Other Life SCI	NSF	Vascular-Plant Flora of Jalisco, Mexico	45,336
1361	Mexico	Other Life SCI	NSF	U.S.-Mexico Cooperative Research: Development of Physiological Selection Criteria for Breeding Drought Resistant Genotypes of Grain Sorghum	4,812
1363 *	Mexico	Other Life SCI	NSF	Genetic Analysis and Population Structure of Spiny Lobsters in the Caribbean	2,658
1364 *	Mexico	Other Life SCI	NSF	Flora Mesoamericana - Phase 3	54,999
1425	Mexico	Physics	NSF	High Energy Physics	450,000
1426	Mexico	Physics	NSF	U.S.-Mexico Collaborative Research: Angular Scattering in Highly Excited Rydberg Atom Formation	7,613
1427	Mexico	Physics	NSF	US-Mexico Cooperative Research: Microscopic Study of Collection Phenomena in Deformed Nuclei	6,538
1428	Mexico	Physics	NSF	U.S.-Mexico Collaborative Research: Sub-Barrier Fusion of Heavy Ions	3,414
1429	Mexico	Physics	NSF	US-Mexico Collaborative Research: Lightning Effects on Power Distribution Lines	8,920
1430	Mexico	Physics	NSF	US-Mexico Cooperative Research: Statistical Mechanics of Chemical Kinetics and Random Systems	4,711
1431	Mexico	Physics	NSF	U.S.-Mexico Cooperative Research: Theoretical and Experimental Studies of Nucleon Transfer Reactions in the Vicinity of Fermi Energy	6,048
1432	Mexico	Physics	NSF	U.S.-Mexico Collaborative Research in Quantum Gravity	2,442
1433	Mexico	Physics	NSF	US-Mexico Collaborative Research: Theoretical Studies of Quantum Transport in Disordered Media	8,745
1463	Mexico	Social Sciences	NSF	Collaborative Research: Early State Formation Processes: The Aztec City State of Otumba, Mexico	20,000
1464	Mexico	Social Sciences	NSF	U.S.-Mexico Collaborative Research: Peasant Economy and Household Units: Dynamics Structure and Reproduction in the Valley of Oaxaca	14,151
1465 *	Mexico	Social Sciences	NSF	Reconstruction Following Hurricane Gilbert	7,500
1265	Middle East	Engineering	NSF	4th International Colloquium on Structural Stability will be held in New York City on April 16-19, 1989	8,681
1028	Morocco	Chemistry	NSF	Solid State Structural Chemistry of Inorganic Phosphates - U.S. - Morocco	9,548

## Science &amp; Technology Activities listed by Country -- NSF Activities

REF#	Country	Sector	Agency	Title of Activity	Funding
1434	Nepal	Physics	NSF	BCSPIN KATHMANDU SUMMER SCHOOL "Non-Perturbative Phenomena and Selected Current Topics in Condensed Matter and Particle Physics", May 20-June 8, 1990, Kathmandu, Nepal	10,000
1466 *	Nicaragua	Social Sciences	NSF	Coffee and Politics in Central America: The Coffee Elites of El Salvador, Costa Rica, and Nicaragua	9,942
1366	Nigeria	Other Life SCI	NSF	U.S.-Nigeria Cooperative Research on Patterns of Predation and Taxonomic Diversification in Cenozoic Gastropod Assemblages	9,298
1158	Pakistan	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: Lateral Variations in the Timing and Nature of Metamorphism Associated with a Major Terrane Boundary in the NW Himalaya	29,702
1159	Pakistan	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: Lateral Variations in the Timing and Nature of Metamorphism Associated With A Major Terrane Boundary in the NW Himalaya	20,886
1160	Pakistan	Earth SCI/Terre	NSF	Petrology and Mineralization Potential of the Chilas, Jijal, and Related Segements of the Basal Ultramafic-Mafic Cumulate Complex, Kohistan Accreted Island Arc Terrane	61,209
1161	Pakistan	Earth SCI/Terre	NSF	Foodweb Dynamics of Mangrove Habitats in Pakistan	134,534
1162	Pakistan	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: Precise and Detailed Uplift History of an Orogen: Quantitative Constraints from $^{40}\text{Ar}/^{39}\text{Ar}$ and Fission-Track Thermochronometry	31,534
1163	Pakistan	Earth SCI/Terre	NSF	COLLABORATIVE RESEARCH: Precise and Detailed Uplift History of an Orogen: Quantitative Constraints from $^{40}\text{Ar}/^{39}\text{Ar}$ and Fission-Track Thermochronology	19,251
1266	Pakistan	Engineering	NSF	Prototype Research on Sedimentation Engineering	68,628
1276	Pakistan	Environment	NSF	Research on Advanced Renovation of Small Industry Wastes, Reuse of Water from Desizing Waste of Textile Industry, SFC Award in Pakistani Currency	24,917
1367	Pakistan	Other Life SCI	NSF	SFC Award (Pakistani Currency) for Study of Chromosomes of Vascular Plants of Pakistan	22,938
1368	Pakistan	Other Life SCI	NSF	Physiological and Biochemical Aspects of Nitrogen Fixation in Kallar Grass, SFC Award in U.S. and Pakistani Currencies	10,092
1369	Pakistan	Other Life SCI	NSF	Enzymology of DNA Repair, SFC Award in Pakistani Currency	10,405
1370	Pakistan	Other Life SCI	NSF	Enzymology of DNA Repair, SFC Award in Pakistani and U.S. Currencies	15,417
1371	Pakistan	Other Life SCI	NSF	Evaluation of Chemical Pollution Using Bioassay Procedures, in Pakistan	9,375
1372	Pakistan	Other Life SCI	NSF	Search for Enzymes with Long Recognition Sequences, U.S.-Pakistan Collaboration	10,000
1435	Pakistan	Physics	NSF	Nuclear Chromodynamics, U.S.-Pakistan Cooperative Research at M.I.T.	6,390
1164	Panama	Earth SCI/Terre	NSF	Collaborative Research: Consequences of Leaf Lifetime for Photosynthetic Physiology, Secondary Metabolism, and Anatomy in Tropical Plants	63,119
1373	Paraguay	Other Life SCI	NSF	Collaborative Research: Evolution of Nasal Passages in Peccaries: Functional Interpretation	50,887
1165	Peru	Earth SCI/Terre	NSF	Evidence for a Temperate Climatic Belt in the Southern Hemisphere of the Carboniferous Period	37,546
1267	Peru	Engineering	NSF	US-Peru Cooperative Research: Bioconversion of Lignocellulose to Animal Feed by Solid Substrate Fermentation and Ensiling Substrate Fermentation and Ensiling	8,656
1061 *	Philippines	Earth SCI/Ocean	NSF	REU: Low-Latitude Western Boundary Currents in the Pacific Ocean	129,355
1064	Philippines	Earth SCI/Ocean	NSF	U.S. Philippines Cooperative Research on Development of a Predictive Capacity for the Occurrence of Large Amplitude Coastal Seiches	10,198
1166	Philippines	Earth SCI/Terre	NSF	RUI: Collaborative Research: Metamorphism and Deformation Associated with Late Cenozoic Strike-Slip Faulting in the Philippines	18,511
1167	Philippines	Earth SCI/Terre	NSF	Collaborative Research: Metamorphism and Deformation Associated with Late Cenozoic Strike-Slip Faulting in the Philippines	19,626
1168	Philippines	Earth SCI/Terre	NSF	Evolution of Modern Intra-Arc Sedimentary Basins in the Central Philippine Archipelago	61,287

Science & Technology Activities Listed by Country -- NSF Activities

REF#	Country	Sector	Agency	Title of Activity	Funding
1169	Philippines	Earth SCI/Terre	NSF	U.S.-Philippines Cooperative Research: Controlling Biological Deterioration of Philippines Woods Species by Application of Volatile Fungicides	9,025
1170	Philippines	Earth SCI/Terre	NSF	Collaborative Research: Geochemistry of Arc Magmas from Luzon and Marinduque Islands, Philippines.	23,745
1171	Philippines	Earth SCI/Terre	NSF	Crustal Evolution of North Luzon: Transition from Island Arcs to Micro-Continent	37,474
1277	Philippines	Environment	NSF	U.S.-Philippines Cooperative Research: Investigation into the Populational Structure of the Philippines Seagrasses	22,202
1374	Philippines	Other Life SCI	NSF	Philippine Plant Inventory	393,374
1172	Senegal	Earth SCI/Terre	NSF	U.S.-Senegal Cooperative Research: Early Cambrian Small Shelly Fossils Stratigraphy & Paleoenvironments in the Southwest Taoudeni Basin, West Africa	6,985
1263 *	Singapore	Engineering	NSF	Presidential Young Investigator Award	19,359
1268	Singapore	Engineering	NSF	U.S.-Singapore Cooperative Research: Experimental and Analytical Studies of Nonlinear Structural Systems Under Earth-quake Loads	8,768
1173	South Africa	Earth SCI/Terre	NSF	Compilations of Topographic, Magnetic and Geophysical Data from the Indian Ocean	37,199
1174	South Africa	Earth SCI/Terre	NSF	Jurassic Paleomagnetism from Africa: Implications for Intraplate Deformation and the South Atlantic Fit	27,916
1467	South Africa	Social Sciences	NSF	Social Stratification	66,608
1156	South America	Earth SCI/Terre	NSF	Collaborative Research: Soil Organic Matter in the Tropics: Determinants and Consequences	75,000
1157	South America	Earth SCI/Terre	NSF	Collaborative Research: Soil Organic Matter in the Tropics: Determinants and Consequences	40,000
1175	South America	Earth SCI/Terre	NSF	Collaborative Research: Archaeomagnetic Investigations of Geomagnetic Field Behavior in North and South America	22,335
1375	South America	Other Life SCI	NSF	Collaborative Research: Revisionary Studies in Bromeliaceae Subfamily Tillandsioideae	36,614
1436	South America	Physics	NSF	U.S.-Japan Cooperative Research: Ultrahigh Energy Cosmic Rays	15,625
1376	Sri Lanka	Other Life SCI	NSF	A U.S.-Sri Lanka Seminar on the Development of a Science Information Center and Information Science Program	9,304
1278	Sudan	Environment	NSF	U.S.- Federal Republic of Germany Cooperative Research on Paleoclimates	3,200
1029	Swaziland	Chemistry	NSF	US-Swaziland Cooperative Research on Synthetic Routes to Thicphospholipids	6,670
1176	Tanzania	Earth SCI/Terre	NSF	Long Term Studies of African Lions	107,587
1177	Tanzania	Earth SCI/Terre	NSF	Mechanisms and Evolution of Reproductive Phenomena in a Cooperatively - Breeding Mammal	77,520
1065	Thailand	Earth SCI/Ocean	NSF	U.S. Thailand Cooperative Research: Feeding Deterrence of Herbivorous Coral Reef Fishes as an Indicator of Chemical Defenses of Tropical Marine Algae	12,247
1178	Thailand	Earth SCI/Terre	NSF	U.S.-Thailand Cooperative Research on Sediment Trapping by Brackish Water Ponds in Thailand	7,385
1265 *	Thailand	Engineering	NSF	4th International Colloquium on Structural Stability will be held in New York City on April 16-19, 1989	8,681
1269	Thailand	Engineering	NSF	Presidential Young Investigator Award	60,315
1468	Thailand	Social Sciences	NSF	Effects of Crowding in Bangkok	49,977
1179	Trinidad/Tobago	Earth SCI/Terre	NSF	Structural Evolution of the Northern Range of Trinidad	8,725
1030	Uruguay	Chemistry	NSF	Theoretical Study of Boron Anionic Heterocycles Derived from Hydroxamic Acids	8,025
1270	Uruguay	Engineering	NSF	Aerodynamic Characteristics of Boundary Layer Wind Tunnel and Design of Tunnel Components	8,435
1039	Venezuela	Earth SCI/Atmos	NSF	U.S.- Venezuela Cooperative Research on Climatology	8,358
1056	Venezuela	Earth SCI,Ocean	NSF	U.S.-Venezuela Cooperative Research: Strain Selection and Cell Isolation of Commercially Important Venezuelan Seaweeds for Mariculture	6,116
1180	Venezuela	Earth SCI/Terre	NSF	Genetic Structure in Cooperative Societies	96,020
1181	Venezuela	Earth SCI/Terre	NSF	Pan American Congress on Conservation of Wildlife through Education	50,000
1271	Venezuela	Engineering	NSF	New Approaches to Real Time Flood Forecasting: Weather Radar and Fluvial Geomorphology in Hydrology	102,509

Science & Technology Activities Listed by Country -- NSF Activities

REF#	Country	Sector	Agency	Title of Activity	Funding
1272	Venezuela	Engineering	NSF	U.S.-Venzuela Cooperative Research: Modeling of Silicon-on-Insulator (SOI) Inversion-Type MOSFETs	5,702
1377	Venezuela	Other Life SCI	NSF	U.S.-Venezuela Cooperative Research: Ultrastructure of Contracting Muscle Studied by Rapid Freezing	4,245
1378	Venezuela	Other Life SCI	NSF	U.S.-Venezuela Cooperative Science: Anaplasma Marginale Proteins and Attachment to Bovine Red Cell Ligands	2,503
1379	Venezuela	Other Life SCI	NSF	Flora of the Venezuelan Guyana	59,602
1380	Venezuela	Other Life SCI	NSF	U.S.-Venezuela Cooperative Research on the Rivulid Killifishes	6,840
1381	Venezuela	Other Life SCI	NSF	US-Venezuela Cooperative Research: Life History Studies of Plant Path Pathogenic Ascomycetes in Venezuela	8,500
1382	Venezuela	Other Life SCI	NSF	U.S.- Venezuela Program: Structural Studies of Enzymes of the Energy Metabolism of Trypanosoma Cruzi	3,736
1383	Venezuela	Other Life SCI	NSF	Research Participation in a Survey of the Natural Resources of the Venezuelan Guayana Region	9,992
1489	Venezuela	Space Sciences	NSF	U.S.-Venezuela Cooperative Research: Long-Term Astronomical Surveys Using Electronic Detectors on a Wide-Field Telescope	8,649
1384	Zimbabwe	Other Life SCI	NSF	Long-Range Monitoring of Movement Patterns and Infrasonic Vocalizations	53,832

# **ANNEX**



## **METHODOLOGICAL NOTES**

## Methodological Notes

The data presented in this Compendium were compiled from two sources. For all agencies other than the National Science Foundation, information was collected using a reporting form developed under the guidance of the Subcommittee on Science and Technology in Developing Economies (SATIDE) of the Committee on International Science Engineering and Technology (CISSET). Each agency submitted forms for activities that it determined met the Subcommittee's definition of Science and Technology in developing countries.

After a preliminary survey of the forms to establish the range and variety of data, a codesheet was developed. The forms were coded and entered into a database developed with dBase III+. The data were edited and corrected as necessary.

The National Science Foundation (NSF) did not use the reporting form but submitted a subset of data from the Agency's central database. The initial data included any activity that had an international orientation such as foreign travel, support for foreign students, and research at a foreign location. For this compendium, data were limited to activities that involved a foreign institution, an international program, or a cooperative or collaborative arrangement with foreign scientists. Using these criteria the appropriate NSF data were added to the database.

In some cases, the data from the National Science Foundation were recoded to fit the categories specified on the SATIDE form. For example, the SATIDE committee identified 18 sectors within the field of science and technology (See Table 6). In the NSF database the information in the variable "Field of Science" is closest to that of sector. The 49 academic disciplines were recoded into the 18 categories of the sector variable. Because data from the "field of science" variable data were used to create the sector data, NSF activities are more likely to be classified in the "sciences" than that of other agencies.

For the listings of information on activities (see Appendix A and Appendix D) the agency contact point for NSF differs from that of other agencies. For other agencies (Appendix A), an agency's contact person and telephone number is listed for each activity. For NSF data (Appendix D), the name of the NSF funding program was used in the place of a contact person because NSF program staff positions are rotated regularly among visiting scientists. The name of the funding program will help NSF staff assist interested readers obtain more information about a particular activity.

The NSF data did not contain data comparable to the keywords used to define activities beyond the broad sector categories in the reporting form. These fields are blank for the NSF data in the database.

The introductory section cautions that the funding data for each activity should be interpreted with great care. Specifically, when funding levels under \$100,000 were given only in ranges, the mid-points of those ranges were used in the analysis. This caution applies equally to funding for individual countries. In most cases, agencies provided estimates of funding for individual activities and, if applicable, the names of countries participating in the activity. Funding for individual countries was calculated by dividing the total funding by the number

of countries. As a result each country is assigned an equal portion of the total funding which may overestimate or underestimate the actual funding to any one country.