



DISASTER RISK REDUCTION – LATIN AMERICA AND THE CARIBBEAN

OVERVIEW

Countries in Latin America and the Caribbean (LAC) experience a multitude of natural hazards, including earthquakes, hurricanes, floods, tsunamis, landslides, volcanoes, and drought. Environmental and industrial events, such as forest fires and chemical and oil spills, also pose potential threats. El Niño, a climate pattern that occurs on average once every three to seven years, periodically exacerbates the impacts of hydrometeorological events, while environmental degradation and poor land-use management increase populations’ vulnerability to natural hazards.

USAID’s Office of U.S. Foreign Disaster Assistance (USAID/OFDA) supports disaster risk reduction (DRR) programs aimed at saving lives, alleviating human suffering, and reducing the social and economic impact of disasters in LAC. These programs include risk identification, prioritization, and reduction, as well as post-disaster recovery and short-term rehabilitation projects. USAID/OFDA promotes local and national self-sufficiency in disaster preparedness and management throughout the region. USAID/OFDA’s programs build upon and strengthen the capacity of established national and regional disaster management institutions, many of which are capable of meeting the majority of emergency needs after an event.

Established in 1989, the Regional Disaster Assistance Program (RDAP) is the primary vehicle for USAID/OFDA’s support of disaster risk management in LAC. Since the program’s inception, the capacity of disaster management personnel and governments in LAC countries has increased. As a result, USAID/OFDA has shifted from a strictly instructional approach to providing more technical assistance in planning, strengthening, and centralizing the role of national organizations in disaster management. By providing disaster response training to local disaster responders, USAID/OFDA’s technical assistance enhances local and regional abilities to respond to emergency needs by increasing understanding of disaster preparedness and mitigation activities, as well as encouraging intra- and inter-governmental coordination in all risk management initiatives. In many LAC countries, disaster management training is conducted entirely by local trainers, with USAID/OFDA providing only technical assistance.

USAID/OFDA’s team of five regional advisors based in San José, Costa Rica, and a consultant network of 20 disaster risk management specialists dispersed throughout the region, oversee and monitor RDAP and other DRR programs. USAID/OFDA regional advisors and consultants are available for immediate deployment to disaster-affected countries to conduct damage and needs assessments and help coordinate U.S. Government emergency response activities, if required.

USAID/OFDA supports the development of risk management in LAC through a wide range of programs. During FY 2011, USAID/OFDA provided nearly \$62 million for DRR projects throughout LAC, including programs that integrate DRR with disaster response.

FY 2011 DRR FUNDING IN LAC ¹	
Stand-Alone DRR Programs in LAC (see pages 8-9)	\$10,944,109
Programs that Integrate DRR with Disaster Response ² (see page 10-11)	\$51,047,735
TOTAL DRR Funding in LAC	\$61,991,844

¹ Year of funding indicates the Fiscal Year of obligation, not appropriation, of funds.

² The figure reported represents the integrated DRR–response portion of the larger disaster response programs.

STAND-ALONE DRR PROGRAMS IN LAC

In FY 2011, USAID/OFDA's LAC team provided nearly \$11 million for stand-alone DRR initiatives that advance a goal of improving preparedness and mitigating and preventing the worst impacts of disasters. USAID/OFDA provided additional funding for regional and global stand-alone programs that include activities in LAC to strengthen disaster preparedness and response. At the regional and country levels, USAID/OFDA and implementing partners engaged communities, national and local governments, international and regional organizations, and non-governmental organizations (NGOs) to develop effective strategies—tailored to the needs of at-risk populations—to reduce the risk of disasters. These programs all reflected USAID/OFDA's commitment to support capacity development; strengthen linkages between risk identification, monitoring, early warning, and early action; and expand partnerships and joint programming. Analysis of existing capacities and social, economic, and environmental trends guided programs. When possible, USAID/OFDA programs addressed underlying causes of recurrent disasters, including environmental degradation, rapid urban growth, and climate change.

Global and Regional Programs Active in LAC

- DRR in the Americas (Year 4 of 5): In FY 2008, USAID/OFDA entered a cooperative agreement with Florida International University (FIU) in Miami to strengthen existing programs and encourage development of new DRR activities in the LAC region. The five-year, \$4.5 million program provides opportunities for key actors and stakeholders to meet and address vulnerabilities in the region. Through the USAID/OFDA-supported program, FIU is creating and managing an inventory of DRR initiatives in the LAC region and strengthening 12 DRR communities of practice, comprising public and private sector organizations such as universities, international organizations, NGOs, and civil society groups. During the fourth year of the program, which began in September 2011, FIU International Hurricane Research Center staff conducted research in Haiti to evaluate various structural elements of USAID/OFDA transitional shelters (t-shelters), such as hurricane strapping, to inform future testing in the FIU "Wall of Wind" laboratory. Testing will identify best construction practices for t-shelters in hurricane-vulnerable regions, and FIU will disseminate study results throughout the humanitarian community to improve the quality of shelter programs in future responses. In FY 2011, USAID/OFDA provided more than \$1 million in continued funding for DRR in the Americas, bringing the total to more than \$3.6 million provided since 2008.
- Paul C. Bell, Jr., Risk Management Initiative: USAID/OFDA provided more than \$800,000 to FIU in FY 2011 for Phase V of the Assessment of LAC Risk Management Curricula program, known also as the Paul C. Bell, Jr., Risk Management Initiative. Phases I and II involved assessing the state of disaster, emergency, and risk management instruction in institutions of higher education in the LAC region and selecting three institutions in South America to receive small grants and assistance to strengthen disaster management learning. During phase III and IV, the program continued to provide scholarships and facilitate faculty and student exchanges, as well as public and private sector internships. In addition, six universities in Costa Rica, Colombia, El Salvador, Guatemala, and Peru received small grants to carry out community DRR projects. To date in Phase V, a three-year phase that began in July 2009, the program has created and awarded three-year scholarships to nine individuals committed to disaster management. In FY 2011, FIU used USAID/OFDA funding to strengthen the *Gestión de Riesgos* (Risk Reduction) training courses—including geographic information systems and a remote sensing training module—for participants throughout LAC. Participants were connected with top scientific and technical institutions in Argentina, Brazil, and Mexico, as well as universities in Chile, Colombia, Costa Rica, Jamaica, Panama, Spain, and Trinidad. Since FY 2003, USAID/OFDA has provided more than \$2 million to FIU for the Paul C. Bell, Jr., Risk Management Initiative.
- Improving Access to Climate and Weather Data, Products, and Technical Expertise: With more than \$500,000 in USAID/OFDA assistance in FY 2011, the National Oceanic and Atmospheric Administration (NOAA) is providing countries in LAC with improved access to weather, climate, and hydrometeorological experts, data, and information. USAID/OFDA's program through NOAA assists national, regional, and international entities by providing weather-, climate-, and hydrometeorological-related disaster response and risk reduction services aimed at reducing vulnerability to hydrometeorological extremes. In FY 2011, NOAA supported the update of Central America's flash flood guidance system and conducted a regional flash flood workshop for the national meteorological and hydrological services in South America. Additionally, NOAA sent experts to the Climate Variability and Predictions workshop for the Atlantic Basin, an event designed to build the capacity of professional meteorologists from developing countries in the areas of climate monitoring, risk assessment, and prediction.

- VDAP: Through support from USAID/OFDA, the U.S. Geological Survey (USGS) Volcano Disaster Assistance Program (VDAP) provides technical assistance to volcano-monitoring organizations throughout the world. VDAP assistance includes crisis response support, training for risk assessment, the development of early warning plans, and the transfer of volcano-monitoring equipment and technology. Following explosive eruptions at Ecuador's Tungurahua volcano during April and May 2011, VDAP provided support—including consultation and analysis of remote sensing data of the volcano—to the Geophysics Institute in support of its monitoring of Tungurahua's ongoing eruptions. In addition, VDAP-assisted monitoring activities by Chile's National Service of Geology and Mining led to successful evacuations prior to the June 2011 eruption of the Puyehue-Cordón Caulle volcano. In late FY 2011, VDAP provided a new volcano seismic monitoring system to Guatemala's National Institute for Seismology, Volcanology, Meteorology and Hydrology in response to seismic activity in the vicinity of Pacaya volcano. VDAP also assisted the Colombian Institute of Geology and Mining to interpret the monitoring data from September and October activity near Machín volcano. USAID/OFDA provided more than \$560,000 in FY 2011 to USGS in continued support of VDAP activities in LAC. Since 1986, USAID/OFDA support for VDAP in the LAC region totals approximately \$8,650,000.
- Views from the Frontline: USAID/OFDA provided Tearfund with nearly \$760,000 in FY 2011 to enhance DRR at a community and national level through support to the Global Network of Civil Society Organizations for Disaster Reduction "Views from the Frontline" (VFL) project. The project seeks to build resilience to disasters by increasing the effectiveness of global civil society groups to cooperatively and strategically engage in DRR policy and practice. VFL incorporates the concerns of vulnerable populations into DRR policy and practice by strengthening linkages between local, national, regional, and international groups. In FY 2011, VFL focused on extending its geographical coverage to 70 countries worldwide, including those in LAC, substantially increasing the number of program participants.
- Incorporating Gender Issues into DRR: In FY 2011, USAID/OFDA provided nearly \$300,000 to the International Organization for Migration (IOM) to support a series of three workshops focused on the incorporation of protection and gender issues into DRR planning and activities in LAC. These activities will lay the groundwork for the fourth USAID/OFDA-funded International Conference on Gender and Disasters, to be held in 2012, which will provide a forum for selected LAC countries to share their experience in strengthening their national Disaster Risk Management plans through meaningful integration of gender issues and perspectives.
- Study Tour to Prepare for Urban Disasters: In FY 2011, USAID/OFDA provided \$10,000 through USAID/El Salvador to allow selected disaster management professionals in the LAC region to attend a study tour in Haiti. The tour provides participants with the opportunity to survey and share urban DRR techniques, including best practices and lessons learned from the Haiti earthquake response. Upon completion, study tour participants returned to their respective countries with a clearer understanding of viable measures to reduce the potential impacts of urban disasters. These individuals can assist their own governments in designing appropriate mitigation strategies for urban environments.
- Strengthening Regional Meteorological and Hydrological Services: With USAID/OFDA support, the World Meteorological Organization (WMO) continues working to reduce the impact of hydrometeorological extremes, including floods, droughts, cyclones, coastal hazards, severe weather, and other climate, weather, and water-induced hazards. This program strengthens technical and institutional capacities of national meteorological and hydrological services in support of national disaster management programs through improved monitoring and forecasting of hydrometeorological and climate-related hazards, as well as early warning systems. During FY 2011, USAID/OFDA initiated a global program through WMO to develop global protocols and procedures; implement regional applications of technology; and build capacity to predict flash floods. This will enable national authorities to assess flash flood potential and improve lead time for early warning. In FY 2011, USAID/OFDA provided WMO approximately \$1.7 million in assistance to conduct global programming, including projects in Haiti, the Dominican Republic, and Central America.
- Workshop to Build Seismological Collaboration and Capacity: USAID/OFDA, with matching support from the National Science Foundation, continued to support the Geophysical Hazard and Plate Boundary Processes in Central America, Mexico, and the Caribbean: A Workshop to Build Seismological Collaboration and Capacity. The workshop, hosted by Incorporated Research Institutions for Seismology, took place in October 2010 in Costa Rica.

The three-day workshop brought together seismologists and other geophysicists from Central America, Mexico, the Caribbean, and the U.S. to plan and coordinate initiatives that will contribute to geophysical research and hazard mitigation in the LAC region through international collaboration.

- **GEM Foundation Workshops:** With a worldwide grant from USAID/OFDA, the Global Earthquake Model (GEM) Foundation continues to coordinate 11 projects on seismic hazard, risk, and socioeconomic impact and application throughout the world, including the LAC region. The GEM Foundation is a public-private partnership that encourages collaboration to develop and deploy tools and resources for earthquake risk assessment worldwide. Through this USAID/OFDA-supported initiative, hundreds of organizations and individual experts, professionals, and practitioners are working together on uniform global databases, methodologies, tools, and open-source software.

Caribbean Programs

Regional

- **Saving Lives in the Caribbean through Preparedness:** In FY 2011, USAID/OFDA provided nearly \$1 million to the American Red Cross (AmRC) to enhance the capacity of communities in the Bahamas, Belize, and St. Lucia to better mitigate, prepare for, and respond to the adverse effects of climate change and disasters. Through the two-year program, AmRC is increasing the resilience of vulnerable communities by raising awareness of local disaster-related risks and assisting communities in mobilizing appropriate preparedness mechanisms and activities.
- **Readiness to Respond – Phase II:** With USAID/OFDA funding, AmRC continued to implement *Readiness to Respond* in the Caribbean. This two-year program, which began in September 2009, focuses on Antigua and Barbuda, the Bahamas, Haiti, St. Kitts and Nevis, and St. Lucia, expanding the regional coverage of the original program, focused on Guyana, St. Lucia, and Trinidad and Tobago. By providing increased training opportunities and conducting vulnerability and capacity assessments, AmRC continues to enhance the capacity of Caribbean communities to mitigate, prepare for, and respond to the effects of climate-induced disasters. Phase II of the program builds upon lessons learned during Phase I, while incorporating best practices from recent community-based disaster management projects in the region.
- **Youth-Focused DRR:** With more than \$880,000 USAID/OFDA support in FY 2011, Catholic Relief Services (CRS) is engaging and training youth in at-risk communities in the Dominican Republic, Grenada, Jamaica, and St. Lucia in DRR and preparedness principles. The program aims to establish a long-term foundation for DRR and mitigation efforts through the creation and training of youth emergency action committees. Through the program, CRS works to strengthen four existing youth emergency action committees, while replicating successful DRR and preparedness interventions across inner city Kingston, as well as in neighboring countries.
- **Regional DRR Coordination:** In FY 2011, USAID/OFDA provided more than \$100,000 to the Caribbean Disaster Emergency Management Agency (CDEMA) to support regional coordination and strengthening of risk reduction strategies.
- **Research to Improve DRR Interventions:** With USAID/OFDA funding from a previous year, the Feinstein International Center at Tufts University is conducting field-based and desk research in several countries worldwide, including Haiti, to determine the impact of various types of crises on livelihoods. Completed research will include case studies, publications, programming tools, and analysis that aim to identify the impact, costs, and benefits of DRR interventions, as well as the effectiveness of integrated and stand-alone approaches. The project will document underlying risk factors and also make recommendations for appropriate sequencing and targeting of DRR approaches, outlining best practices for linking long-standing programs to specific DRR outcomes.

The Dominican Republic

- **Community-Level DRR:** USAID/OFDA provided more than \$725,000 to the Dominican Development Institute (IDDI) in FY 2011 to decrease vulnerability of communities in the Dominican Republic through community-level DRR training and capacity-building exercises. IDDI emphasizes increased disaster preparedness among youth, including through risk reduction training for teachers, risk reduction campaigns in schools, and the development of school emergency plans.

Haiti

- Improving Haiti's Seismic Network: To better understand the potential for future earthquakes in Haiti, USAID/OFDA provided USGS with nearly \$240,000 to support geology projects throughout the country. An additional \$60,000 in USAID/OFDA assistance enabled USGS to provide technical assistance to improve the Haitian seismic network.
- Strengthening Haiti's Local Emergency Management Capacity: With nearly \$80,000 in USAID/OFDA funding, the U.N. Development Program (UNDP) enhanced the emergency management capacity of the Government of Haiti (GoH) by hiring additional staff and improving information technology. This support will also help improve local coordination and information management efforts during future emergencies.

Jamaica

- Increasing the Resiliency of Farming Communities: In FY 2011, USAID/OFDA provided more than \$466,000 to HelpAge International to assist farmers in nine communities safeguard their livelihood assets from natural disasters. This two-year project increases awareness, knowledge, skills, and resources at the community level to address gaps in disaster preparedness and emergency management, including training in animal and crop protection procedures and strengthening and development of disaster preparedness and response structures.

Central America Programs

Regional

- Regional Conference on Risk Reduction: In FY 2011, USAID/OFDA provided \$25,000 in support of a regional risk reduction conference hosted by the Central American Coordination Center for the Prevention of Natural Disasters (CEPRENAC) in July. The conference allowed regional partners to coordinate disaster prevention and mitigation efforts in preparation for potential natural disasters, as well as the effects of climate change.

El Salvador

- Reducing Risk in Rural El Salvador: In FY 2011, Save the Children/U.S. (SC/US) received \$1 million from USAID/OFDA to strengthen vulnerable communities' resilience to disasters in rural El Salvador by safeguarding their livelihood and household assets. Through this two-year project, USAID/OFDA is assisting members of the civil protection commissions at the department, municipal, and community levels, as well as vulnerable farming and fishing families living in flood-prone areas in Usulután Department. The program also places significant emphasis on school-based DRR initiatives.
- Community-Level Disaster Preparedness in El Salvador: USAID/OFDA provided nearly \$260,000 to CRS in FY 2011 to strengthen the disaster preparedness, mitigation, and response capacity of vulnerable communities in the sub-watershed of the Acahuapa River in El Salvador. In coordination with the National Civil Protection System, CRS is engaging and training youth in disaster preparedness by creating community risk maps, developing strategies to raise community awareness, and identifying appropriate community-level risk mitigation projects.

Nicaragua

- Community-Level Disaster Preparedness in Nicaragua: USAID/OFDA is strengthening capacities of urban and rural communities in the Masaya and Managua departments in Nicaragua to prepare for, mitigate, and respond to geological and hydrometeorological hazards. With nearly \$1 million in assistance in FY 2011, CARE is linking institutions at local, municipal, departmental, and national levels to develop and implement DRR approaches, including the strengthening of early warning systems to monitor seismic, volcanic, and flood threats.
- Reducing Hydrometeorological Risk in Nicaragua: Through CRS, USAID/OFDA is ensuring that communities residing near the Lower Coco River in Nicaragua have a long-term plan for sustainably reducing risks resulting from chronic flooding and other hydrometeorological disasters. In FY 2011, USAID/OFDA provided CRS nearly \$540,000 to improve the communities' capacity to manage early warning systems, strengthen and develop response and preparedness plans, and rapidly respond to emergencies.

South America Programs

Regional

- Increasing Resilience across South America: In FY 2011, USAID/OFDA provided nearly \$1 million in assistance to AmRC to increase the resilience of vulnerable communities in Ecuador, Paraguay, and Colombia. USAID/OFDA's support raises the awareness of risks, including those related to climate change, and helps communities mobilize appropriate preparedness and response mechanisms. In coordination with local Red Cross societies, AmRC will provide capacity-building training and resources, as well as address vulnerabilities in nearly 50 communities through disaster mitigation projects to build safer, more disaster-resilient communities.

Bolivia

- Linking Climate Change Adaptation and DRR: With USAID/OFDA funding and on behalf of the Emergency Capacity Building Project Consortium of six NGOs, CRS is developing a DRR and climate change adaptation (CCA) guide and training package to fill the gap in existing DRR CCA resources. The tools will serve both development and humanitarian response professionals worldwide, as well as government disaster management agencies. The project fills an existing resource gap and will provide suggestions for integrating DRR and climate adaptation concepts and projects. The guide will also help protect development gains, while increasing a community's resilience to natural hazards. In FY 2011, USAID/OFDA funding for the worldwide program totaled more than \$80,000, a portion of which was allocated to Bolivia.

Ecuador

- Strengthening Community Preparedness and Response to Disasters: In FY 2011, USAID/OFDA provided nearly \$980,000 through CARE/Ecuador to reduce community vulnerability to natural and technical disasters by strengthening disaster preparedness and response capacities of local institutions. Activities target 30 communities in Chimborazo, Guayas, and Cañar provinces. The program will also rehabilitate or retrofit homes and schools located in high-risk areas to improve the ability of structures to withstand future disasters.

Peru

- Reducing Vulnerability to Natural and Technological Risks: Through CARE/Peru, USAID/OFDA is producing national guidelines for community-based early warning systems in coordination with the Government of Peru's National Institute for Civil Defense (INDECI) and National Service for Meteorology and Hydrology. With more than \$800,000 in FY 2011 USAID/OFDA funding, CARE/Peru will identify and facilitate shelter options for key disaster scenarios, in conjunction with national officials. This program will also support the development of improved national guidelines and warning systems, as well as capacity building and training activities, to reduce vulnerabilities of risk-prone communities.
- Improving Disaster Response Planning in Peru: INDECI is developing and disseminating Peru's National Disaster Response Plan with nearly \$30,000 in FY 2011 assistance from USAID/OFDA. In FY 2011, INDECI engaged national, regional, and local governments, scientific and academic institutions, private sector partners, and local stakeholders to update and modernize Peru's National Disaster Response Plan.

PROGRAMS THAT INTEGRATE DRR WITH DISASTER RESPONSE

In addition to stand-alone DRR programs implemented to prevent or mitigate the effects of hazards in the region, USAID/OFDA integrated preparedness and mitigation into disaster response, early recovery, and transition programs. These initiatives, which were in accordance with regional DRR strategies, incorporated risk reduction objectives into a broad range of sectoral interventions to increase the resilience of communities to future shocks. In FY 2011, USAID/OFDA provided more than \$51 million to develop response capacity in the LAC region and for programs in response to the January 2010 earthquake and subsequent cholera outbreak in Haiti.

Global and Regional Programs Active in LAC

- RDAP: In FY 2011, USAID/OFDA provided more than \$5.8 million to the International Resources Group (IRG) to continue RDAP in the LAC region. Through RDAP, USAID/OFDA maintains a network of disaster risk management specialists throughout LAC who provide technical assistance on disaster preparedness and mitigation activities. These disaster risk management specialists also oversee a multi-course DRR program with instruction in disaster management concepts, training methodology, and technical disciplines. To date, USAID/OFDA has provided more than \$60.5 million for implementation of the program. From the program's inception in 1989 to July

2011, nearly 71,800 people—including elected officials, civil service employees, and staff from local relief agencies—had participated in the RDAP training program, and more than 6,500 instructors had been certified in 30 countries.

- **Emergency Health Preparedness Program:** Since 1998, USAID/OFDA has supported the Pan American Health Organization (PAHO) to promote improved disaster preparedness and response in the health sector throughout the LAC region. In FY 2011, USAID/OFDA provided more than \$1 million for activities including advocacy, increasing the capacity of health professionals, and improving technical information services and human resources training in health, environment, and related sectors. The current five-year phase of the program that began in January 2009 is focused on increasing preparedness capacity in the health sector through the continuous training of partner organization staff and health ministry personnel, in addition to advocacy and technical support to update or improve health policy and legislation. Since 1998, USAID/OFDA has provided nearly \$15 million to PAHO for regional technical support.
- **Improving Resilience in Urban Disasters:** With \$75,000 from USAID/OFDA, the U.N. Office for the Coordination of Humanitarian Affairs (OCHA) is developing the capacity of local governments in the LAC region to design and execute actions aimed at building the resilience of cities and communities to urban disaster risks.

Country-Specific Programs

Haiti: Earthquake³

- **Katye:** In FY 2011, USAID/OFDA supported an \$8.6 million program through CHF International to help internally displaced persons (IDPs) return to their neighborhoods using a community-driven, neighborhood-based approach. This program, *Katye*, Creole for “neighborhood”, provided earthquake-affected households with secure, habitable living space, while improving access to essential public services through cooperative planning with local stakeholders and community members. In addition to house repair and t-shelter construction, the *Katye* program incorporated disaster preparedness and risk mitigation measures through the construction of retaining walls and drainage canals, as well as DRR awareness campaigns.
- **CLEAN:** USAID/OFDA provided \$8 million in support of the Clearing Land to Provide Accessible Neighborhoods (CLEAN) program implemented by CHF International, to remove rubble and provide seismically resistant shelter in Port-au-Prince’s highly vulnerable earthquake-affected neighborhoods. In FY 2011, the CLEAN program employed both mechanized and manual efforts to demolish more than 700 severely damaged houses and clear nearly 250,000 m³ of rubble to increase land availability for t-shelter construction.
 - **Strengthening Local Capacity for DRR and Preparedness:** In FY 2011, USAID/OFDA provided IOM more than \$3 million to augment the GoH’s disaster preparedness and risk reduction capacity, while facilitating earthquake recovery efforts in line with the Governmental Action Plan for National Recovery and Development of Haiti. The program identified and increased the amount of available safe evacuation space in Port-au-Prince, an effort that will enhance the safety of high-risk populations during severe storms or flooding. IOM developed and trained disaster risk management committees in more than 40 IDP camps. IOM also provided materials and technical instruction for small mitigation projects in 75 high-risk camps, as well as material and technical support for reinforcing tents and tarpaulins in more than 50 vulnerable camps.
- **House Repair and Upgrading:** Through USAID/OFDA support, the Pan American Development Foundation (PADF) expanded its ongoing house repair program in metropolitan Port-au-Prince. Through the program, PADF trained local masons, engineers, and construction professionals in safe building practices, thus building local capacity and ensuring that repairs enhance structures’ ability to withstand future disasters. The program builds upon a FY 2010 PADF program supported by USAID/OFDA to conduct habitability assessments of more than 400,000 buildings in earthquake-affected areas with assistance from Miyamoto International. Both programs enabled families to leave congested IDP camps and return to their communities. USAID/OFDA provided PADF \$4 million for house repair activities in FY 2011.

³ Through the following four programs, USAID/OFDA integrated DRR into the earthquake response in Haiti.

Haiti: Cholera⁴

- Health Activities, Logistics Support, and Relief Commodities for the Cholera Response:** As part of the cholera response, USAID/OFDA managed a logistical pipeline of cholera-related prevention and treatment commodities, coordinating with IOM to ensure that supplies reached cholera-affected individuals. Through IOM’s pipeline, USAID/OFDA supplied 15 million water purification tablets, sufficient to provide purified water to 750,000 people for one month; 30 metric tons of powdered chlorine for water purification and disinfection of homes, latrines, and cholera treatment facilities; and soap, hygiene kits, 10-liter water containers to reduce the spread of cholera. USAID/OFDA funding also provided 5.3 million sachets of oral rehydration salt to treat approximately 530,000 people and 600,000 liters of intravenous solution for treating approximately 75,000 moderate to severe cholera cases. USAID/OFDA’s assistance to IOM’s commodity pipeline totaled \$8.8 million. In addition to supporting logistics and relief commodity activities through IOM, USAID/OFDA provided \$3.6 million in additional funding to IOM to reduce the spread of cholera in Haiti and support cholera treatment of infected individuals. USAID/OFDA assistance enabled IOM to establish oral rehydration point kiosks, assess and map cholera treatment facilities (CTFs), provide personal protective equipment for health workers, and support patient referrals. In total, USAID/OFDA provided \$12.4 million through IOM to reduce cholera’s impact in Haiti.
- Cholera Prevention and Treatment in Haiti:** Samaritan’s Purse received nearly \$2.9 million from USAID/OFDA to mitigate the effect of the outbreak through water, sanitation, and hygiene (WASH) and health programs, as well as the provision of commodities to prevent cholera. Through the USAID/OFDA grant, Samaritan’s Purse distributed water containers, hygiene kits, and a three-month supply of water purification tablets to limit the spread of cholera. The program also included a mass media campaign to disseminate hygiene and cholera prevention information, as well as cholera treatment services in some of Port-au-Prince’s most vulnerable neighborhoods.
- Preventing and Treating Cholera through Health Worker Training and Community Mobilization:** With more than \$1.4 million from USAID/OFDA in FY 2011, CRS implemented a cholera treatment and prevention program to train nearly 300 health workers and more than 2,000 community mobilizers throughout Haiti. The program, which concluded in June 2011, focused on underserved areas, building upon CRS’s existing network of health centers in seven of Haiti’s 10 departments.
- Additional USAID/OFDA Support for Health and WASH Interventions:** In addition to support for CRS, IOM, and Samaritan’s Purse, USAID/OFDA provided \$4.9 million for programs to reduce the spread and severity of cholera cases in Haiti, including nearly \$3.5 million for WASH activities and approximately \$1.4 million for health interventions. USAID/OFDA partners Action Contra la Faim (ACF), American Refugee Committee (ARC), Concern, Mercy Corps, International Medical Corps (IMC), and SC/US implemented WASH programs throughout Haiti, particularly in difficult-to-access rural communities and the metropolitan Port-au-Prince area. WASH programs included water testing and treatment through chlorine distribution; medical waste management; and disinfection of latrines, CTFs, and homes of cholera patients. USAID/OFDA partners also carried out hygiene promotion activities designed to increase awareness of cholera prevention measures. With USAID/OFDA assistance, Management Sciences for Health (MSH) and SC/US also conducted health interventions in affected areas. MSH trained health care workers at nearly 150 service delivery sites and re-opened health kiosks in approximately 50 IDP camps. SC/US’s activities reinforced disease surveillance systems, trained community health workers, and supported four CTFs in the Port-au-Prince region.

USAID/OFDA DRR FUNDING IN LAC IN FY 2011⁵

USAID/OFDA STAND-ALONE DRR PROGRAMS IN LAC					
Country/Region	Program	Activity	Partner	Subtotal	Total
Caribbean	Saving Lives in the Caribbean through Preparedness	Natural and Technological Risks	AmRC	\$976,951	\$1,958,952
	Youth-Focused DRR	Natural and Technological Risks	CRS	\$881,977	

⁴ Through the following activities, USAID/OFDA integrated DRR into the cholera response in Haiti.

	Regional DRR Coordination	Humanitarian Coordination and Information Management	CDEMA	\$100,024	
Central America	Regional Conference on Risk Reduction	Humanitarian Coordination and Information Management	CEPRENAC	\$25,000	\$25,000
Dominican Republic	Community-Level DRR	Natural and Technological Risks	IDDI	\$725,147	\$725,147
Ecuador	Strengthening Community Preparedness and Response to Disasters	Natural and Technological Risks; Shelter and Settlements	CARE/Ecuador	\$976,760	\$976,760
El Salvador	Community-Level Disaster Preparedness in El Salvador	Natural and Technological Risks	CRS	\$257,133	\$1,257,133
	Reducing Risk in El Salvador	Agriculture and Food Security; Natural and Technological Risks	SC/US	\$1,000,000	
Haiti	Strengthening the Haitian Seismic Network	Natural and Technological Risks	USGS	\$298,000	\$298,000
Jamaica	Increasing Resilience of Farming Communities	Agriculture and Food Security; Natural and Technological Risks	HelpAge International	\$466,038	\$466,038
LAC	DRR in the Americas (Year 4 of 5)	Humanitarian Studies, Analysis, or Applications	FIU	\$1,056,866	\$1,875,389
	Paul C. Bell, Jr., Risk Management Initiative	Humanitarian Studies, Analysis, or Applications	FIU	\$808,523	
	Haiti Study Tour	Natural and Technological Risks	USAID/El Salvador	\$10,000	
Nicaragua	Community-Level Disaster Preparedness in Nicaragua	Natural and Technological Risks	CARE	\$996,664	\$1,534,304
	Reducing Hydrometeorological Risk in Nicaragua	Humanitarian Studies, Analysis, or Applications; Natural and Technological Risks	CRS	\$537,640	
Peru	Improving Disaster Response Planning in Peru	Administrative Support	INDECI	\$27,452	\$831,047
	Reducing Vulnerability to Natural and Technological Risks	Natural and Technological Risks; Shelter and Settlements	CARE/Peru	\$803,595	
South America	Increasing Resilience across South America	Natural and Technological Risks	AmRC	\$996,339	\$996,339
TOTAL USAID/OFDA STAND-ALONE DRR FUNDING IN LAC					\$10,944,109

USAID/OFDA PROGRAMS THAT INTEGRATE DRR WITH DISASTER RESPONSE IN LAC⁶

Country/Region	Program	Activity	Partner	Subtotal	Total
Haiti (Cholera)	Sanitation and Hygiene Activities in Cholera-Affected Areas	WASH	ACF	\$925,000	\$21,552,431
	Hygiene Promotion and Treatment to Reduce and Treat Cholera	WASH	ARC	\$101,210	
	Hygiene Education and Messaging	WASH	Concern	\$624,942	
	Preventing and Treating Cholera through Health Worker Training and Community Mobilization	Health	CRS	\$1,417,527	
	Treatment for Cholera-Affected Populations	WASH	IMC	\$638,691	
	Health Activities, Logistics Support, and Relief Commodities for the Cholera Response	Health; Logistics and Relief Supplies	IOM	\$12,400,000	
	Hygiene Promotion to Reduce Spread of Cholera	WASH	Mercy Corps	\$925,013	
	Health Worker Training and Prevention and Treatment of Cholera	Health	MSH	\$825,617	
	Cholera Prevention and Treatment in Haiti	Health; Logistics and Relief Supplies; WASH	Samaritan's Purse	\$2,869,431	
	Prevention and Treatment of Cholera in IDP Camps	Health; WASH	SC/US	\$825,000	
Haiti (Earthquake)	CLEAN	Shelter and Settlements	CHF International	\$8,061,390	\$22,406,319
	Katye	Shelter and Settlements; WASH	CHF International	\$7,261,281	
	Strengthening Local Capacities for DRR and Preparedness	Shelter and Settlements	IOM	\$3,006,255	
	House Repair and Upgrading	Shelter and Settlements	PADF	\$4,000,000	
	Enhancing Haiti's Local Emergency Management Capacity	Humanitarian Coordination and Information Management	UNDP	\$77,393	

LAC	RDAP	Humanitarian Coordination and Information Management	IRG	\$5,863,985	\$7,088,985
	Improving Resilience in Urban Disasters	Humanitarian Coordination and Information Management	OCHA	\$75,000	
	Emergency Health Preparedness Program	Health	PAHO	\$1,150,000	
TOTAL USAID/OFDA INTEGRATED FUNDING IN LAC					\$51,047,735
TOTAL USAID/OFDA DRR FUNDING IN LAC IN FY 2011					\$61,991,844

⁵ Year of funding indicates the Fiscal Year of obligation, not appropriation, of funds.

⁶ The figure reported represents the integrated DRR–response portion of larger disaster response programs.

USAID/OFDA bulletins appear on the USAID web site at <http://www.usaid.gov/what-we-do/working-crises-and-conflict/disaster-risk-reduction-0>