

Contributors

Jeffrey Alwang has been a faculty member in the Department of Agricultural and Applied Economics at Virginia Tech since 1989. He has served as an advisor to several developing countries, including El Salvador (2008–2009), Paraguay (2006), and the government of Zimbabwe and the World Bank (1997–1998). His teaching focuses on economic development and poverty reduction in rural areas. His research addresses issues in economic development and the economics of poverty with a focus on policies to attain poverty-reducing economic development in rural areas. He has conducted research in Central and South America, Africa, the Caribbean, and the Middle East. Alwang earned his master's degree in agricultural economics from Pennsylvania State University and his PhD in agricultural economics from Cornell University.

Robert Andrade completed his undergraduate studies at the Catholic University of Quito, Ecuador. In August 2008 he received a master's degree in agricultural and applied economics at Virginia Tech. His master's thesis examines livelihood strategies in Chimbo, Ecuador, and forms a major part of the book chapter. Andrade works with the National Agricultural Research Institute (INIAP) in Ecuador and has participated in both the Integrated Pest Management (IPM) and the Sustainable Agriculture and Natural Resource Management (SANREM) Collaborative Research Support Programs (CRSPs).

Victor Barrera has been a lead scientist at INIAP for more than 20 years. He leads a team on project design, implementation, and evaluation that provides technical support to key research teams at the institute. He has worked on integrated management of agricultural pests, natural resource management, agricultural marketing, gender, and community development among other projects. He received a master's degree in production systems from the Catholic University of Chile and is currently finishing his PhD in planning and project management from the Polytechnic University of Madrid.

Michael Bertelsen received his graduate degrees in agricultural economics from the University of Wisconsin-River Falls (master's) and Virginia Tech (PhD). During a professional career of nearly 30 years, he has taught land economics and agricultural policy at the University of Wyoming, served as a research economist with the United Fruit Company in Honduras, and worked as a long- and short-term consultant in the general area of agricultural and natural resource economics in more than 25 developing countries in Africa, Latin America, and Asia. He joined the Office of International Research, Education, and Development at Virginia Tech in 1995 and currently serves as its associate director as well as associate dean for international programs in the College of Agriculture and Life Sciences.

Dileep Birur is a PhD student in the Department of Agricultural Economics at Purdue University. He holds a master's degree in agricultural economics from the University of Idaho, a master's in agricultural economics from CCS Haryana Agricultural University in India, and a bachelor's in agricultural marketing from the University of Agricultural Sciences, Bangalore, India. His research interests are international trade and the environment, mainly focusing on bioenergy, land use and land cover change, greenhouse gas emissions, poverty, policy, and devel-

opment. He has worked as a research associate in the Division of Agricultural Economics, Indian Agricultural Research Institute, New Delhi, and as graduate research and teaching assistant at the University of Idaho and Purdue University.

Louise Buck received a master's degree in natural resources planning and rural sociology at Colorado State University and a PhD in natural resources and development sociology at Cornell University. With more than 25 years of experience in the design, analysis, and management of integrated natural resources and rural development programs, she specializes in linking the capacities of universities and research centers with those of field-based development initiatives to improve the science and practice of natural resource management. Buck designed and developed a sequence of agroforestry and rural development projects in East Africa linking the World Agroforestry Center with the humanitarian organization CARE and other nongovernmental groups to demonstrate community benefits from trees in agricultural systems. At the Center for International Forestry Research and Cornell, she worked with organizations in Indonesia and Madagascar to advance the science and practice of community-based forest management. Currently she works jointly for Ecoagriculture Partners and the Department of Natural Resources at Cornell to foster innovation in integrated landscape management.

Salmana Cissé received his PhD in sociology from Université Paris VII. With more than three decades of research and development experience in the region of the inner delta of the Niger (Mali) and across West Africa, Cissé is a widely reputed expert in agro-silvo-pastoral livelihoods and production practices with a special interest in the land-tenure dimensions of rural production systems. As a consultant for the World Bank and multiple bilateral development agencies, he has managed and evaluated development projects and programs for national and international development agencies across Mali. Cissé is currently director of the Regional Agricultural Research Center for the national Institut de L'Économie Rurale in Mopti, Mali.

Denise Finney received a master's degree in horticultural science from North Carolina State University. She has more than 10 years of experience working with communities on agricultural development and research projects, primarily in Latin America and southern Africa. Finney served as project director for the SANREM CRSP at North Carolina State from 2005 to 2007.

Cornelia Butler Flora received a master's degree in rural sociology and a PhD in development sociology from Cornell University. She has worked internationally, primarily in Latin America, for more than 40 years as a program advisor for the Ford Foundation, consultant for the World Bank and United Nations projects, and as part of collaborative research projects in Latin America. She has been director of the Population Research Laboratory and Distinguished Professor of Sociology at Kansas State University, head of the Department of Sociology at Virginia Tech, and is currently Charles F. Curtiss Distinguished Professor of Sociology, Agriculture and Life Sciences at Iowa State University. She served for 15 years as director of the U.S. Department of Agriculture's Cooperative State Research, Education, and Extension Service North Central Regional Center for Rural Development at Iowa State University. She is a Fellow of the American Association for the Advancement of Science and a past president of the Rural Sociological Society, the Community Development Society, and the Agriculture and Human Values Society.

Emmanuel A. Frimpong is an assistant professor of fisheries science at Virginia Tech. He received a bachelor's degree in natural resources management at the University of Science and Technology, Ghana, a master's in aquaculture and fisheries at the University of Arkansas, and an interdisciplinary PhD in fisheries and aquatic sciences and natural resources policy at Purdue University. His research focuses on the effects of landscape disturbances on streams and their watersheds, and development of cost-effective methods for conservation of fisheries in these

systems. He has worked in Midwestern U.S. agricultural landscapes and is currently a principal investigator on an AquaFish CRSP project in Ghana, studying pond aquaculture effluent influences on receiving streams and best management practices.

Carola A. Haas received her bachelor's degree in biological sciences at Wellesley College and her PhD in ecology and evolutionary biology at Cornell University. Her research focuses on how native populations of wild birds, amphibians, and reptiles may best be maintained on land used for production agriculture and forestry or other human uses. She is particularly interested in dispersal behavior. She has conducted much of her research on private land through the cooperation and kindness of farmers and foresters in North America and Asia. She leads the Southern Appalachian Silviculture and Biodiversity project, now in its 15th year. As a postdoctoral Fellow with the NSF/Japan Society for the Promotion of Science, Haas worked in Japan for two years in affiliation with Yamanashi University and the Wild Bird Society of Japan. She has served on the faculty in the Department of Fisheries and Wildlife Sciences at Virginia Tech since 1993.

Sarah Hamilton is an anthropologist and professor and director of the program in international development at the Josef Korbel School of International Studies at the University of Denver. Her research focuses on economic, social, and environmental impacts of agricultural market participation by small-scale farmers; rural livelihood security; and the gendered dimensions of international agricultural development and environmental sustainability efforts. Previously she served as the director of Women in Development program at Virginia Tech. Hamilton received her master's degree and PhD in anthropology from the University of Kentucky.

Paul Hepperly, Fulbright Scholar and research director at the Rodale Institute, has played a leading role in efforts to provide organic solutions to global climate change, nutrient-dense food, famine prevention, and poverty reduction through research, education, and information outreach. His expertise extends to both organic and conventional agriculture. As a researcher/manager, he has worked in Central and South America, the Caribbean, Europe, India, and Africa. He has contributed to more than 180 publications on diverse subjects related to agronomy and pathology, carbon sequestration, and research program management. He manages long-term agricultural trials that promote farming, safe food, and pure water. He holds PhD, master's, and bachelor's degrees in plant pathology, agronomy, and psychology, respectively, from the University of Illinois. He was honored with the Rachel Carson Council Sense of Science Award in 2005 and a Fulbright Scholarship in 2007. His lifetime goal is to increase science and public awareness of biologically based farming systems.

Sarah M. Karpanty is an assistant professor in the Department of Fisheries and Wildlife Sciences at Virginia Tech. Her research includes studies of both wildlife behavioral ecology and the restoration of tropical native forests. Karpanty has worked in Madagascar since 1997 on predator-prey ecology in fragmented rainforest landscapes and community-based native tree restoration. She has been consulting with USAID in Madagascar since 2005 to explore the potential for passive versus active restoration of degraded rainforests in eastern Madagascar. She has been asked to participate in the development of a national strategic plan for forest restoration in Madagascar and has begun work with the Malagasy Department of Water and Forests, USAID, Conservation International, World Wildlife Fund (WWF), and the University of Antananarivo, Madagascar. Since 2004, Karpanty has been studying shorebirds to identify the factors that might regulate threatened and endangered species during migratory stopovers and the impact of human development on the Atlantic Coast of the United States.

Keith M. Moore received a master's degree in rural development at the Institute of Social Studies in The Hague, Netherlands, and a PhD in rural sociology at the University of Wisconsin-

Madison. He has more than 25 years of experience in the design, implementation, and analysis of agricultural and natural resource-based projects and policies. His activities have included managing research and technology transfer programs, building community-level social infrastructure, diagnosing institutional and technical constraints, designing information systems, and facilitating stakeholder communication. Moore taught at Oklahoma State University and the Institute of Technology in Malaysia, and conducted research in North and West Africa, Eastern and Western Europe, Southeast Asia, and the United States. He is currently associate program director for the SANREM CRSP at Virginia Tech, where he has worked since 1994 coordinating multidisciplinary research teams with project sites in Africa, Asia, and Latin America.

Saied Mostaghimi is the H.E. and Elizabeth F. Alphin Professor and department head of biological systems engineering at Virginia Tech. He has been widely recognized for his research, outreach, and educational programs in watershed management, in particular, soil erosion and non-point source (NPS) pollution assessment and prevention. Mostaghimi has published more than 350 technical works on watershed management, integrating modeling and monitoring for assessing the impacts of land-use activities on water quality, NPS pollution control, and impact of land-use activities on the quality of surface and groundwater. He has conducted sponsored projects and provided consulting services on NPS pollution control around the world. He is a Fellow of the American Society of Agricultural and Biological Engineers and currently serves on the executive board of the Chesapeake Bay Scientific and Technical Advisory committee, which has significantly contributed to the Bay cleanup program. Mostaghimi received his master's degree and PhD. in agricultural engineering from the University of Illinois.

J. Paul Mueller received a master's degree in agronomy from the University of Delaware and a PhD in grassland agronomy from Pennsylvania State University. He has been involved with international programs and projects beginning with a six-month study leave in 1985-86 to research intensive grazing management and pasture ecology in New Zealand. In 1993, as one of three co-investigators, he was awarded a five-year University Development Linkage Project grant from USAID to North Carolina State, Universidad de Costa Rica, and Universidad Nacional de Costa Rica. He initiated ongoing research with scientists in Cuba working on agroecological projects including organic production systems that integrate crops and animals. As a visiting scientist with the Food and Agriculture Organization of the United Nations, he conducted case studies in Costa Rica, El Salvador, Honduras, and Tanzania. He is currently a co-principal investigator on a U.S. Department of Agriculture International Science Education grant focused on organic agriculture in Uruguay; and serves as interim assistant dean for international programs for the College of Agriculture and Life Science at North Carolina State.

George W. Norton has been a faculty member at Virginia Tech since 1980. He was a visiting scientist at the Economic Research Service, U.S. Department of Agriculture (1999-2000), visiting associate professor at Cornell University (1987-88), and held adjunct appointments as a research fellow (1988-91) and a senior fellow (1991-94) at the International Service for National Agricultural Research. His teaching focuses on the economics of agricultural development and trade. His research addresses issues in agricultural development and production economics with a focus on evaluating economic impacts of agricultural research and integrated pest management. He chairs the Technical Committee for the IPM CRSP and has conducted research in Asia, Africa, Latin America, the Caribbean, and the Middle East. Norton earned his master's degree and PhD in agricultural economics from the University of Minnesota.

Sara J. Scherr is an agricultural and natural resource economist whose career has focused on agricultural and forest policy in tropical developing countries. She is founder and president of

Ecoagriculture Partners, a nongovernmental organization supporting agricultural communities to increase production and incomes, and to enhance wild biodiversity and ecosystem services. She is a member of the United Nations Environment Program Advisory Panel on Food Security and the board of directors of The Katoomba Group and REBRAAF-USA. She recently served on the board of the World Agroforestry Centre and was a member of the United Nations Millennium Project Task Force on Hunger. Scherr's former positions include director of ecosystem services for Forest Trends, adjunct professor at the University of Maryland, co-leader of the Consultative Group on International Agricultural Research Gender Program, senior research Fellow at the International Food Policy Research Institute, and a principal researcher at the World Agroforestry Centre. She has been honored as a Fulbright Scholar and a Rockefeller Social Science Fellow. Scherr received her master's degree and PhD in international economics and development at Cornell University.

Devona Bell Sherwood has more than 15 years of professional experience in project management with a focus on ecosystem restoration, natural resource management, conservation, and rural economic development—needs assessments, project design and management, monitoring and evaluation, capacity building, and strategic planning. She holds a master's degree from North Carolina State University in natural resource policy and administration with an emphasis on multidisciplinary, collaborative, innovative, and alternative approaches to resolving conflict between sustainable environmental management and human pressures on natural resources. She is currently a senior project manager for the Everglades Partners Joint Venture, working on implementation of various elements of the South Florida and Everglades Ecosystem Restoration Program for the U.S. Army Corps of Engineers. Previously, Bell Sherwood was a program officer for Winrock International's Forestry & Natural Resource Management unit, working on the participatory natural resource management program that offers integrated strategies for sustainable resource management and livelihoods.

Gerald Shively conducts research on a range of topics related to poverty, economic development, and the environment in developing regions of the world. He is a professor of agricultural economics at Purdue University and an adjunct professor in the Department of Economics and Resource Management at the Norwegian University of Life Sciences. He serves on the executive committee of the Purdue Climate Change Research Center and is co-editor in chief of *Agricultural Economics*, the journal of the International Association of Agricultural Economists. He holds a PhD in agricultural and applied economics from the University of Wisconsin-Madison and bachelor's and master's degrees in economics from Boston University.

Arion Thiboumery will complete his doctorate at Iowa State University in December 2009 in sustainable agriculture, rural sociology, and meat science. His work has focused extensively on knowledge networks, adaptive management, and group organizing in the food system. To this effect, he coordinates the Small Meat Processors Working Group in Iowa and co-coordinates the national Niche Meat Processor Assistance Network, an extension community of practice. Operating at different scales, both groups bring together diverse stakeholders and assistance providers to more effectively, and in a coordinated fashion, support small-scale meat processing infrastructure development to promote sustainable rural development and new agricultural opportunities.

Abdoulaye Touré earned his Diplôme d'Ingénieur des Sciences Appliquées in agriculture at the Institut Polytechnique Rural in Katibougou, Mali. His work has included managing community-based rural development projects as well as democracy- and institution-building programs across Mali. Touré is currently regional coordinator for CARE in Mopti, Mali, focused primarily on the management of local conflicts.

Sharyl Walker holds bachelor's and master's degrees in agricultural engineering from Virginia Tech and a PhD in agricultural engineering from the University of Illinois at Urbana-Champaign. She has worked with a variety of local planning groups to address water-quality issues at the watershed scale and has taught college-level courses on water quality and watershed management. Walker currently serves as a conservation engineer with the Natural Resources Conservation Service of the U.S. Department of Agriculture.

Peter Wyeth has a bachelor's degree in economics from London University and a PhD in agricultural economics from the University of California-Berkeley. He was reared in several Asian countries and has spent most of his career in development work, particularly in Africa (Kenya, Lesotho, Cameroon, Mali, and Malawi, among others) but also in Asia (Afghanistan) and Latin America (Chile and Guatemala). His areas of special interest have been marketing and export diversification (especially in agricultural products), economic analysis of sustainable farming practices, agricultural policy, and monitoring and evaluation of development programs. He has taught economics at the University of Nairobi and economics and business at Washington State University. He worked for some years in the International Programs Research and Development unit at Washington State, from which he retired at the end of 2007. He continues to work in economic development at the university and to teach international business courses in the Distance Degree Program.