Appendixes
Appendix A

The Assessment's Contractor Reports

Part A: Principles of Low-Resource Agriculture

Coauthors: C. Gregory Knight, Department of Geography, Pennsylvania State University, University Park, PA and R. Dennis Child, Winrock International, Morrilton, AR

Reviewers:*
Miguel Altieri, Division of Biological Control, University of California, Berkeley, CA
John H. Grover, Department of Fisheries and Allied Aquacultures, Auburn University, Auburn, AL
James Newman, Department of Geography, Syracuse University, Syracuse, NY
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Coauthors: John H. Grover and Stephen P. Malvestuto, Department of Fisheries and Allied Aquacultures, Auburn University, Auburn, AL

Reviewers:
W. Herbert Allsopp, Smallworld Fishery Consultants, Inc., North Vancouver, British Columbia
Arthur J. Hanson, Institute for Resource and Environmental Studies, Dalhousie University, Halifax, Nova Scotia
Frank Meriwether, Agricultural Research Center, University of Arkansas at Pine Bluff, Pine Bluff, AR

1. These contractor reports should be requested as Volume 2 (Contract Papers) of this assessment from the National Technical Information Service, Springfield, VA 22161, telephone (703) 487-4650. NTIS accession numbers for paper or microfiche copies are:
   • Part A: Principles of Low-Resource Agriculture, PB 88201 280 /AS.
   • Part B: The USDA Data Base and the Potential of Low-Resource Agriculture, PB 88 201 298 /AS.
   • Part C-1: Development Assistance and Low-Resource Agriculture, PB 88 201 306 /AS.
   • Part C-2: Development Assistance and Low-Resource Agriculture, cont. PB 88 201 314 /AS.
   • Part D: Technology Papers, PB 88 201 322 /AS.

2. Advisory Panelists reviewed each of these Contractor Reports.
Reviewers:
Earl M. Brown, African Development Foundation, Washington, DC
Margaret Snyder, Development Fund for Women, U.N. Development Program, New York, NY
May Yacoob, Water and Sanitation for Health Project, Arlington, VA

Author: Elinor Ostrom, Workshop in Political Theory and Policy Analysis, University of Indiana, Bloomington, IN
Reviewers:
David Atwood, Bureau for Science and Technology, U.S. Agency for International Development, Washington, DC
Ed Connerly, NASPAA, Washington, DC
Sheldon Gellar, East Lansing, MI
George Honadle, Development Alternatives, Inc. Washington, DC
Norman Uphoff, Center for International Studies, Cornell University, Ithaca, NY

Part B: The USDA Data Base and the Potential of Low-Resource Agriculture

Author: John M. Staatz, Department of Agricultural Economics, Michigan State University, East Lansing, MI
Reviewers:
Sara Berry, African Studies Center, Boston University, Boston, MA
Charles A. Francis, Agronomy Department, University of Nebraska, Lincoln, NE

Author: Charles A. Francis, Agronomy Department, University of Nebraska, Lincoln, NE
Reviewers:
Douglas J. Lathwell, Department of Agronomy, Cornell University, Ithaca, NY
John M. Staatz, Department of Agricultural Economics, Michigan State University, East Lansing, MI

Reviewers of Both Francis and Staatz Papers:
Donald Plucknett, Consultative Group on International Agricultural Research, Washington, DC
Kenneth Swanberg, Office of International Cooperation and Development, U.S. Department of Agriculture, Washington, DC

“Overview and Summary”
“Kenya Supplementary Information”
“Malawi Supplementary Information”
“Nigeria Supplementary Information”
“Senegal Supplementary Information”
“Sudan Supplementary Information”
“Zaire Supplementary Information”
“Zimbabwe Supplementary Information”


Reviewers:
Charles A. Francis, Agronomy Department, University of Nebraska, Lincoln, NE
John M. Staatz, Department of Agricultural Economics, Michigan State University, East Lansing, MI

Part C-1. Development Assistance and Low-Resource Agriculture

Author: Hussein M. Adam, Somali Unit for Research on Emergencies and Rural Development, Mogadishu, Somalia and Harvard Institute of International Development, Harvard University, Cambridge, MA
Reviewers:
John W. Bruce, Land Tenure Center, University of Wisconsin, Madison, WI
Richard Ford, International Development Program, Clark University, Worcester, MA
Thomas M. Painter, Social Science Research Council, New York, NY
Bill Rau, Bread for the World, Washington, DC

Author: Robert J. Cummings, African Studies and Research Program, Howard University, Washington, DC
Reviewers:
Bill Rau, Bread for the World, Washington, DC
Victor Uchendu, Department of African Amer-
ican Studies, University of Maryland Baltimore County, Baltimore, MD

Author: Carol Lancaster, School of Foreign Service, Georgetown University, Washington, DC
Reviewers:
Stephen Commins, African Studies Center, University of California, Los Angeles, CA
Charles Hanrahan, Abt Associates, Inc., Washington, DC
William Haven North, Bureau for Policy Planning and Coordination, U.S. Agency for International Development, Washington, DC

Author: Celia Jean Weidemann, Washington, DC
Reviewers:
Paula Goddard, Bureau for Policy Planning and Coordination, U.S. Agency for International Development, Washington, DC
Jane B. Knowles, International Agricultural Programs, University of Wisconsin, Madison, WI
George Scharffenberger, Washington, DC

Report: “U.S. Domestic Policy Dilemmas Affecting Development Assistance”
Author: Karen Wiese, Associates in Rural Development, Burlington, VT
Reviewers:
Tom Armor, El Segundo, CA
Robert L. Paarlberg, Center for International Affairs, Harvard University, Cambridge, MA
John L. Woods, International Program for Agricultural Knowledge Systems, University of Illinois, Urbana, IL

Author: Kathleen Desmond, Arlington, VA
Reviewers:
Kathleen Cloud, Women in Development Office, University of Illinois, Urbana, IL
George Honade, Development Alternatives, Inc., Washington, DC
John Staatz, Department of Agricultural Economics, Michigan State University, East Lansing, MI

Author: Della E. McMillan, Department of Anthropology, University of Kentucky, Lexington, KY
Reviewers:
Ted Scudder, Cape Tribulation, Queensland, Australia

Report: “Links Between the Private Enterprise and Low-Resource Agriculture in Sub-Saharan Africa”
Author: Arthur Gibb, Jr., Department of Economics, U.S. Naval Academy, Annapolis, MD
Reviewers:
Joel Greer, National Security and International Affairs Division, General Accounting Office, Washington, DC
Steve Haggblade, Metropolitan Studies Program, Syracuse University, Syracuse, NY
Frances Brigham Johnson, U.S. Agency for International Development, Washington, DC

Report: “Strategies for Development of the Private Sector and Its Links with Low-Resource Agriculture”
Coauthors: Galen Hull and Guy Gran, Kensington, MD
Reviewers:
Steve Haggblade, Metropolitan Studies Program, Syracuse University, Syracuse, NY
Frances Brigham Johnson, U.S. Agency for International Development, Washington, DC

Report: “New Models for Low-Resource Agricultural Research and Extension in Sub-Saharan Africa”
Author: Paul Richards, Anthropology Department,
University College London, London, United Kingdom

Reviewers:
Robert Chambers, Institute of Development Studies, University of Sussex, Brighton, UK
Jane I. Guyer, Mary Ingraham Bunting Institute, Radcliffe College, Cambridge, MA
Janice Jiggins, Andelst, Netherlands
Robert M. Netting, Department of Anthropology, University of Arizona, Tucson, AZ


Reviewers:
Billie R. DeWalt, Department of Anthropology, University of Kentucky, Lexington, KY
Tim Frankenberger, Office of Arid Lands Studies, University of Arizona, Tucson, AZ
Bruce F. Johnston, Food Research Institute, Stanford University, Stanford, CA
Kenneth Swanberg, Bureau for Science and Technology, U.S. Agency for International Development, Washington, DC
Hubert G. Zandstra, Agriculture, Food, and Nutrition Sciences, International Development Research Center, Ottawa, Canada

Part D: Technology Papers

Report: “Soil Fertility Maintenance in Sub-Saharan Africa”
Coauthors: Paul L.G. Vlek, A.U. Mokwunye, and M.S. Mudahar, International Fertilizer Development Center, Muscle Shoals, AL

Reviewers:
Arthur B. Onken, Texas Agricultural Experiment Station, Lubbock, TX
John H. Sanders, Department of Agricultural Economics, Purdue University, West Lafayette, IN
Charles Steedman, Center for Research on Economic Development, University of Michigan, Ann Arbor, MI

Report: “Crop Rotation and Residue Management”
Author: Rattan Lal, International Institute for Tropical Agriculture, Ibadan, Nigeria

Reviewers:
Frank G. Calhoun, International Programs in Agriculture, Columbus, OH
George C. Taylor, North Carolina State University, Raleigh, NC
Charles W. Wendt, Texas Agricultural Experiment Station, Texas A&M University, Lubbock, TX
Wayne O. Willis, Colorado State University, Ft. Collins, CO

Report: “Five Small-Scale Water Management Technologies”
Author: W. Gerald Matlock, Desert Agricultural and Technology Systems, Inc., Tucson, AZ

Reviewers:
E. Walter Coward, Department of Rural Sociology, Cornell University, Ithaca, NY
B.A. Stewart, Southern Plains Area Conservation and Production Research Laboratory, U.S. Department of Agriculture, Bushland, TX
Lyman S. Willardson, Department of Agricultural and Irrigation Engineering, Utah State University, Logan, UT

Report: “Soil and Water Management in the Humid and Highland Zones of Africa”
Author: Laurence A. Lewis, Graduate School of Geography, Clark University, Worcester, MA

Reviewers:
Daniel C. Clay, International Statistical Programs Center, Bureau of the Census, Washington, DC
Philip W. Porter, Department of Geography, University of Minnesota, Minneapolis, MN
Bob J. Walter, Department of Geography, Ohio University, Athens, OH

Author: Alfred S. Waldstein, Associates in Rural Development, Burlington, VT

Reviewers:
Guy LeMoigne, Agriculture and Rural Development Department, World Bank, Washington, DC
Report: “Intercropping in Low-Resource Agriculture in Africa”
Author: David J. Andrews, Department of Agronomy, University of Nebraska, Lincoln, NE
Reviewers:
Dana Dalrymple, Consultative Group on International Agricultural Research, U.S. Agency for International Development, Washington, DC
John H. Sanders, Department of Agricultural Economics, Purdue University, West Lafayette, IN

Author: Charles A. Francis, Department of Agronomy, University of Nebraska, Lincoln, NE
Reviewers:
Dana Dalrymple, Consultative Group on International Agricultural Research, U.S. Agency for International Development, Washington, DC
John H. Sanders, Department of Agricultural Economics, Purdue University, West Lafayette, IN

Report: “Agroforestry in Africa”
Author: Roy T. Hagen, Esko, MN
Reviewers:
Steven R. Brechin, School of Natural Resources, University of Michigan, Ann Arbor, MI
Bruce B. Burwell, Natural Resources Sector, U.S. Peace Corps, Washington, DC
Dennis Johnson, Forestry Support Program, U.S. Forest Service, Washington, DC
Michael McGahuey, Chemonics, Inc., Washington, DC
Fred R. Weber, Boise, ID

Report: “Crop Breeding for Low-Resource Agriculture: Overview, Rice, Food Legumes”
Author: Ivan W. Buddenhagen, Department of Agronomy, University of California, Davis, CA
Reviewers:
David J. Andrews, Department of Agronomy, University of Nebraska, Lincoln, NE
Charles A. Francis, Department of Agronomy, University of Nebraska, Lincoln, NE
Donald Plucknett, Consultative Group on International Agricultural Research, Washington, DC
Johannes ter Vrugt, The World Bank, Washington, DC

Report: “Millet Breeding for Low-Resource Agriculture in Africa”
Authors: David J. Andrews, Department of Agronomy, University of Nebraska, Lincoln, NE
Reviewers:
Glenn W. Burton, Coastal Plain Experiment Station, Tifton, GA
Wayne W. Hanna, Coastal Plain Experiment Station, Tifton, GA

Report: “Maize Breeding”
Author: Sherman F. Pasley, Office of International Programs, University of Florida, Gainesville, FL
Reviewers:
L.L. Darrah, North Central Region Crop Production Research Unit, U.S. Department of Agriculture, Columbia, MO
Paul Gibson, Plant and Soil Science, Southern Illinois University, Carbondale, IL

Report: “Sorghum Breeding”
Authors: Fred R. Miller and John A. Mann, Department of Soil and Crop Science, Texas A&M University, College Station, TX
Reviewers:
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John Axtell, Department of Agronomy, Purdue University, West Lafayette, IN

Report: “Root Crop Breeding”
Author: Walter A. Hill and Conrad Bonsi, Office of International Programs, Tuskegee University, Tuskegee, AL
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Afred Jones, U.S. Vegetable Laboratory, U.S. Department of Agriculture, Charleston, SC
Jill E. Wilson, Research Coordinator, University of the South Pacific, Apia, Western Samoa

Report: “Pest Control”
Author: Dale G. Bottrell, Department of Entomology, University of Maryland, College Park, MD
Reviewers:
Andrea Blumberg, U.S. Agency for International Development, Washington, DC
Report: “Postharvest Technology”
Author: Tropical Development and Research Institute, London, UK
Reviewers:
Thomas V. Dechert, Postharvest Institute for Perishables, University of Idaho, Moscow, ID
Kenton Harris and Carl Lindblad, Volunteers in Technical Assistance, Arlington, VA
John R. Pederson, Food and Feed Grains Institute, Kansas State University, Manhattan, KS

Report: “Communication and Information Technologies”
Author: Frances B. Hays, Academy for Educational Development, Washington, DC
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Joseph N. Pelton, Intelsat, Washington, DC
Ewart Skinner, Department of Communication, Purdue University, West Lafayette, IN