CONFERENCE ON ECOLOGICAL AGRICULTURE:
MITIGATING CLIMATE CHANGE, PROVIDING FOOD SECURITY AND
SELF-RELIANCE FOR RURAL LIVELIHOODS IN AFRICA

African Union Headquarters, Addis Ababa, Ethiopia
26-28 November 2008

REPORT

Introduction

The Conference on Ecological Agriculture: Mitigating Climate Change, Providing Food Security and Self-Reliance for Rural Livelihoods in Africa was held in Addis Ababa, Ethiopia on 26-28 November 2008. It was organised by the African Union (AU), UN Food and Agriculture Organization (FAO) and the Ministry of Agriculture and Rural Development of Ethiopia, in collaboration with the Institute for Sustainable Development (ISD), Ethiopia and the Third World Network (TWN).

Over 80 participants from 15 African countries - Benin, Burundi, Djibouti, Ethiopia, Kenya, Madagascar, Malawi, Mali, Nigeria, Rwanda, Sudan, Tanzania, Uganda, Zambia and Zimbabwe - attended the Conference. The participants included policy makers, agriculture experts representing governments, NGOs, farmers’ organisations, and universities, and international and regional bodies such as the AU, FAO, United Nations Conference on Trade and Development (UNCTAD), the UNEP-UNCTAD CBTF, International Food Policy Research Institute (IFPRI), International Assessment on Agricultural Knowledge, Science and Technology for Development (IAASTD) and World Food Programme (WFP).

The Conference was preceded by a field visit to the Axum area in Tigray Region in northern Ethiopia on 23-25 November 2008, to visit some of the communities of smallholder farmers that the Tigray Regional Bureau of Agriculture and Rural Development of Ethiopia and ISD have been working with on ecological agriculture since 1996. This was an appropriate experience to help focus attention on the aspects of the ecosystem that can easily respond to appropriate management, so as to stimulate discussion on experiences relevant for raising agricultural production, mitigating and adapting to climate change, and achieving the Millennium Development Goals (MDGs) in Africa.

The following are among the significant views, conclusions and recommendations expressed by participants during the Conference. Detailed recommendations from the Working Groups that discussed some of the issues in-depth are annexed to this report.

General

The Conference heard several presentations and discussed the challenges facing African agriculture, not least among them the global food crisis, climate change and the conflicts with inappropriate biofuels development. Moreover, land degradation and the consequential loss of soil fertility, which are exacerbated by pests and erratic rainfall associate with climate change, are major constraints to improving agricultural production in Africa. Consequently, many local communities in African countries are food insecure. Trade policies also have implications for African food security and rural development, which need to be addressed, to stop the worrying trend of food import dependency and increasing vulnerability to external
shocks. The steep rise in petroleum prices and the consequent increase in the cost of chemical fertilizers and pesticides are making it essential to improve soil fertility and agricultural productivity in Africa through effective management of the local resources that are found in the agricultural and surrounding ecosystems. Many diverse and creative ecological agriculture (including organic agriculture) practices based on rich traditional knowledge and agrobiodiversity are found in Africa. Where supported by appropriate research and policy, it has been shown that these have been effective in tackling poverty and improving livelihoods.

In addition, this opens up the opportunity for Africa’s smallholder farmers to become recognized as organic farmers producing for the growing global market fetching fair prices for their products. The global organic market growth has been about 15 per cent per year over the past decade. Internal markets for organic products are also developing rapidly, particularly where consumers are made aware of the improvements to health from eating organic food.

The Conference heard presentations on the potential of ecological agriculture, including organic agriculture, to meet food security needs in Africa. Concrete examples and lessons learnt were presented from several African countries on practices that have successfully increased productivity and yields of crops, provided ecologically sound pest, weed and disease control, resulted in better water availability, met household and local food security needs, increased household income and improved livelihood opportunities, especially for women who are the majority of Africa’s farmers. Other presentations focused on the potential of ecological agriculture to mitigate climate change, and to provide farmers with the means to adapt to climate change.

Participants discussed the need for appropriate national policies to support and build the capacity of farmers and agricultural professionals to implement and mainstream ecological/organic agriculture in Africa. Some of the major barriers and challenges to a transition to ecological agriculture were identified, and recommendations for charting the way forward in terms of policies, action plans and regional and international cooperation were made.

Conclusions

1. Ecological agriculture holds significant promise for increasing the productivity of Africa’s smallholder farmers, with consequent positive impacts on food security and food self-reliance. This is demonstrated by efforts such as the Tigray Project, now working with over 20,000 farming families in Ethiopia, where crop yields of major cereals and pulses have almost doubled using ecological agricultural practices such as composting, water and soil conservation activities, agroforestry and crop diversification. Although Tigray was previously known as one of the most degraded Regions of Ethiopia, yet over the 12 years of the introduction and expansion of ecological agriculture, the use of chemical fertilizers has steadily decreased while total grain production has steadily increased.

2. As most poor farmers, particularly in degraded lands and in market-marginalised areas, are not able to afford external inputs, the principles and approach of the Tigray Project, based on ecological agriculture, offer farmers and their families a real and affordable means to break out of poverty and achieve food security, provided that relevant government commitment, support and capacity-building is provided to them.
3. Ecological agriculture also provides many other benefits, including to the environment, such as addressing land degradation and reducing the use of polluting chemical inputs, with consequent beneficial health impacts. Ecological agriculture helps foster agrobiodiversity and other essential environmental services, which improves agroecosystem resilience, helping farmers to better face risks and uncertainties. The productivity and diversity of crops also increases incomes and improves rural livelihoods.

4. Ecological agriculture has high climate change mitigation potential; for example avoiding the use of synthetic fertilizers results in reduced greenhouse gas emissions, particularly nitrous oxide. Ecological agriculture practices such as using leguminous crops, crop residues, cover crops and agroforestry enhance soil fertility and lead to the stabilization of soil organic matter and in many cases to a heightened sequestration of carbon dioxide in the soils.

5. Ecological agriculture assists farmers in adapting to climate change by establishing conditions that increase agroecosystem resilience to stress. Increasing an agroecosystem’s adaptive capacity allows it to better withstand climate variability, including erratic rainfall and temperature variations and other unexpected events. Drawing on strong local community and farmers’ knowledge and agrobiodiversity, ecological agriculture improves soil quality by enhancing soil structure and its organic matter content, which in turn promotes efficient water use and retains soil moisture. Such conditions simultaneously enhance soil conservation and soil fertility, leading to increased crop yields.

6. The development and growing of biofuels should not compete with food and other crops, and thus require comprehensive impact assessments. Locally-controlled bioenergy production that makes use of agricultural waste and biomass, such as through biogas digesters, could provide sustainable energy generation.

7. Food and energy demand and climate change are inducing land use changes and land access issues, which threaten the viability of farming and rural livelihoods. The resilience of agroecosystems can only be built by empowering local communities, particularly women, to rehabilitate, adapt and improve their natural resource base for continued productivity, and by giving them the appropriate legal backing.

8. The implementation and scaling up of ecological agriculture face several constraints, including the lack of policy support at local, national, regional and international levels, resource and capacity constraints, and a lack of awareness and inadequate information, training and research on ecological agriculture at all levels.

Recommendations

A. Policy and planning

1. The AU and other regional organizations (e.g. SADC, ECOWAS, COMESA) are urged to take action to assist African governments in implementing policies and action plans on ecological agriculture. The AU Commission should also develop strategic partnerships with civil society and other actors to promote and implement ecological agriculture in the continent.
2. The FAO is called to assist the AU in developing an African Action Plan on Ecological Agriculture that will guide member countries in implementing relevant policies and action plans, as a matter of urgency.

3. Governments are urged to conduct in-depth assessments of agricultural conditions and policies in their countries, identify barriers to a transition to ecological agriculture and gaps in policy, and to ensure policy coherence such that ecological agriculture is promoted and facilitated. Meaningful impact of development actions also requires the extensive deployment of extension officers and direct involvement of local communities. Resources from the national, regional and international levels, including climate-related funds, should be made available to assist governments to implement policies and action plans on ecological agriculture.

4. Trade policies should be crafted so that they are supportive of ecological/organic agriculture. Governments are urged to ensure that commitments made at the multilateral and bilateral levels provide enough policy space to enable support for the agriculture sector, expansion of local food production, and effective instruments to provide local and household food security, farmers’ livelihoods and meet rural development needs.

5. Governments are urged to provide support in linking farmers to markets, in the development of domestic and regional markets for organic agricultural products, and in removing barriers to regional and international trade. Building awareness on the environmental and health benefits of organic products, and creating linkages between producers and consumers through short supply chains for ecological produce, is needed in order to stimulate local demand and local markets.

B. Research and development

6. Institutions involved in ecological agriculture are requested to pool their expertise and identify ways to establish an African Centre of Excellence on Ecological Agricultural Research. Research priorities along the value chain, including key food crops and animals, best practices, economic aspects, main problems and solutions to these problems, should be identified in a participatory manner. Farmers’ knowledge is a basic and important component of the research/development continuum and research from the scientific community can complement and build on this.

7. The Conference participants agreed to establish a resource centre on ecological agriculture (e.g. an electronic library) to document best practices (including local knowledge and skills) and enable better communications, sharing of information and experiences on ecological agriculture.

8. Governments are urged to develop awareness, training and educational materials and curricula on ecological agriculture, including for students in schools, tertiary educational institutions, graduate schools, extension officers and farmers. There is a need to include the mass media in awareness-raising efforts and to encourage consumers to appreciate the values of local organic products. Guidelines must be developed for training of trainers (e.g. extension officers) on watershed environmental management strategies and climate change adaptation practices through ecological agriculture. Improving soil fertility in dry and poorly vegetated areas must be given specific consideration.
C. Demonstration projects and technical assistance

9. Pilot projects on ecological agriculture should be established in each country to demonstrate the benefits of ecological agriculture to food security and rural livelihoods. In locations where Green Revolution projects are being launched or implemented, ecological agriculture pilot projects should be given the same financial and other kinds of support in order to allow comparative assessment of the two management systems’ performance, including periodic documentation, monitoring and evaluation of impacts over the short-, medium- and long-terms. Where ecological agriculture projects already exist, they should be scaled-up so as to encourage a wider impact on the environment and uptake by rural communities.

10. The training and technical assistance needs in relation to ecological agriculture should be identified and a list of experts compiled and targeted for continued capacity-building and training.

D. Implementation

11. The international community and African regional and national organisations, including the co-organisers of the Conference, are urged and encouraged to undertake follow-up activities, including providing policy and technical assistance to African governments, particularly the Ministries of Agriculture, Environment and Trade, in order to vigorously support ecological/organic agriculture plans and programmes. Efforts should also include assisting Governments to tap climate-related funds in order to support capacity-building work in ecological agriculture.

12. The donor community is called upon to provide the resources required for ecological agriculture interventions to meaningfully support food security and rural livelihoods. This entails ensuring that adequate and balanced financial allocations are made for ecological agriculture projects. This is especially needed as heavy investments in industrial and chemically-oriented agriculture creates disincentives to other agricultural management alternatives.

13. The Conference participants established a Standing Committee on Ecological Agriculture, which includes representatives from each participating country, in order to continue sharing experiences, enhance networking, undertake follow-up activities such as national workshops, and further the implementation of ecological/organic agriculture in their respective countries and at regional and international levels.
ECOLOGICAL AGRICULTURE: MITIGATING CLIMATE CHANGE, PROVIDING FOOD SECURITY AND SELF-RELIANCE FOR RURAL LIVELIHOODS IN AFRICA

AU Headquarters, Addis Ababa, 26-28 November 2008

Organised by the
African Union, FAO and the Ethiopian Ministry of Agriculture and Rural Development
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Institute for Sustainable Development, Ethiopia and Third World Network

AGENDA

23-25 November 2008: Field visit

Field visit to the Tigray Project near Axum city in Tigray Region, northern Ethiopia to meet local policy makers, agricultural professionals, development agents and farmers.

26 Nov: Challenges for African agriculture

9.00-10.30 Opening session
Moderator: Mr Mafa Chipeta, FAO Representative, Ethiopia
- Welcome address – Dr Aberra Deressa, Minister of State, Ministry of Agriculture and Rural Development, Ethiopia
- Opening address: Overview of food and agriculture in Africa: Issues, opportunities and challenges – H.E. Tumusiime Rhoda Peace, Commissioner for Rural Economy and Agriculture, African Union
- Keynote address: Ecological agriculture as a response to the global food and climate crisis - Alexander Mueller, Assistant Director-General, FAO

11.00-13.00 Session 1: Overview and policy responses in Africa
Moderator: Nadia Scialabba, Senior Officer, FAO
- The food crisis, climate change and the importance of ecological agriculture – Martin Khor, Director, Third World Network
- Ensuring food security in Africa: Issues, challenges and current policy responses – Dr. Tewolde Berhan Gebre Egziabher, Director-General, Environmental Protection Authority, Ethiopia
- International Assessment of Agricultural Knowledge, Science and Technology for Development (IAASTD): Key findings and policy options for ecological agriculture – Dr Hans Herren, Co-Chair, IAASTD/President, Millennium Institute

14.00-15.30 Session 1 (cond’t).: Overview and policy responses in Africa
- Trade policies and their implications for food security and rural development - Martin Khor, Director, Third World Network
- Land policy and rural livelihoods in Africa – Dr Abebe, DREA/AU
- The Green Revolution in Asia, lessons for the African Green Revolution – Hira Jhamtani, Associate, Third World Network

16.30-17.30 Session 2: Climate change and implications for agriculture
Moderator: Hira Jhamtani, Associate, Third World Network
- Agriculture and climate change: Impacts and challenges for Africa – Dr Mahmoud Moustafa, DREA/AU and Lim Li Ching, Researcher, Third World Network
- The agrofuels debate in Africa: Challenges and opportunities – Nnimmo Bassey, Director, Environmental Rights Action, Nigeria
17.30-18.00 Discussion
18.00-19.00 Visit to posters and other items being displayed by participants
19.00 Depart for Welcome Dinner and Cultural Evening

27 Nov: Ecological agriculture: successes and lessons learnt

9.00-11.00 Session 3: Ecological agriculture for food security
Moderator: Mr Edson Mpyisi, Head of Food Security and Agriculture, AU
  o Organic agriculture and food security in Africa – Nadia Scialabba, Senior Officer, FAO
  o The Tigray project: A success story in ecological agriculture – Sue Edwards, Director, Institute for Sustainable Development, Ethiopia
  o The ‘push-pull’ technology: Improving livelihood opportunities for resource poor farmers – Dr Zeyaur Khan, International Centre of Insect Physiology and Ecology, Kenya
  o System of rice intensification – Dr Niaba Teme, Mali
11.00-11.30 Discussion

11.30-12.30 Session 4: Ecological agriculture is climate friendly
Moderator: Dr Tewolde Berhan Gebre Egziabher, Director-General, Environmental Protection Authority, Ethiopia
  o Zero-emissions farming: Integrated food and energy rich farm – Dr. Mae-Wan Ho, Director, Institute of Science in Society, UK
  o Sustainable agriculture practices of local communities and their climate change adaptation potential – Lorenza M. Daguitan, Tebtebba Foundation, Philippines
12.30-13.00 Discussion

14.00-16.00 Session 5: Mainstreaming ecological agriculture in Africa
Moderator: Ms Nadia Scialabba, Senior Officer, FAO
  o Report of the West African Summit on Organic Agriculture – Dr. O. AdeOluwa, IFOAM Contact Point Coordinator, Nigeria / Secretary, Nigerian Organic Agriculture Network
  o The Ethiopian experience in scaling-up ecological agriculture – Ethiopian Ministry of Agriculture and Rural Development
  o Community-based seed conservation – Dr Melaku Woreda
  o Sanitary and Phytosanitary considerations in ecological agriculture in Africa – Dr. Sarah Olembo, Senior Policy Officer, African Union
  o Building sustainable organic movements in Africa - Alastair Taylor, IFOAM / EPOPA / UNCTAD, AgroEco, Uganda
16.50-17.15 Discussion

17.15-19.00 Breakout sessions
  o Discussion in 3 working groups for identifying challenges / barriers / gaps in a transition to ecological agriculture with suggestions on how to overcome these

28 Nov: Environmentally, economically and socially sustainable policies for African agriculture

9.00-11.00 Breakout sessions (cond’t)
  o Identification of actions, including policy responses, action at national level and partnering with the FAO, the African Union and other international agencies

11.30-12.30 Session 6: Plenary presentations from working groups and discussion
Moderator: Sophia Twarog, Economic Affairs Officer, UNCTAD

12.30-14.30 Session 7: Summary report, conclusions and recommendations
Moderator: Nadia Scialabba, Senior Officer, FAO
APPENDIX: LIST OF PARTICIPANTS
**BENIN**

**JINUKUN / COPAGEN (NGO)**
Valery Lawson  
06 BP 2083  
Cotonou  
Tel: 229 95562977 / 21337950  
Fax: 229 21337915  
valery692001@yahoo.fr / reseaujinukun@yahoo.fr

**National Agricultural Research Institute of Benin**
Toussaint Mikpon  
02 BP 665  
Cotonou, Benin  
Tel: 229 95407420  
owoyori@yahoo.fr

**BURUNDI**

**Agriculture & Livestock Ministry**
Pierre-Claver Ntibakivayo  
PO box 1850  
Bujumbura  
Tel: 257 22222087  
Fax: 257 22222873  
muf0zi2006@yahoo.fr

**CAPAD**
Annick Sezibera  
BP 24  
Bujumbura, Burundi  
Tel: 257 22217902  
sezannick@yahoo.fr / capad_shirukubute@yahoo.fr

**Inades-Formation Burundi**
Pascal Baridomo  
BP 2520  
Bujumbura, Burundi  
Tel: 257 22222592 / 79938968  
Fax: 257 22926586  
inades@cbinf.com

**DJIBOUTI**

**CDDA (NGO)**
Mohamoud Elmi Tyeh  
BP 13, Djibouti  
Tel: 253 841838  
mahamoud_nico39@hotmail.com

**Djibouti Nature / Horn of Africa Regional Environment Network**
Houssein Abdillahi Rayleh  
Tel: 253 352667  
Fax: 253 359549  
hrayaleh@hoarec.org / dijjiboutinature@yahoo.fr

**Government of Djibouti**
Charmake Mohamed Youssouf  
Babala, 65  
Djibouti  
Tel: 253 866154  
charkomsa@yahoo.fr

**ETHIOPIA**

**Aco Ersha PLC**
Mohammed Kiyar  
P.O. Box 14230  
Addis Ababa  
Tel: 251 911895840  
Fax: 251 114197779  
mohammedkiyar@yahoo.co.uk

**Addis Admas**
Mengistu Abebe  
Addis Ababa  
Tel: 251 911448803
ECO Yeshemachoch Mahiber – Ethiopian Consumers
Gebremedhine Birega
PO Box 27906
Addis Ababa
Tel: 251 116628256
Fax: 251 116628257
gbirega@gmail.com / gbirega08@ethionet.et / ecoym@ethionet.et

ECOPIA – Ecological Products of Ethiopia
Julius Garbe
PO Box 1072
Addis Ababa
Tel: 251 115546140
mkmatschie@ecopia.de

Martha Vogel
Tel: 251 9110121375
Fax: 251 115546140
mvogel@ecopia.de

Mitslal Kifleyesus-Matschie
Tel: 251 913421625
Fax: 251 115546140
mkmatschie@ecopia.de / mkmatschie@aol.com

Environmental Protection Authority
Tewolde Berhan Gebre Egziabher
PO Box 12760
Addis Ababa
Tel: 251 116464606
esid@ethionet.et / eenvironment@gmail.com

Shimelis Sima
PO Box 12760
Addis Ababa
Tel: 251 911628308
sim932000@yahoo.com

Ethiopian Institute of Agricultural Research
Fekadu Marame
PO Box 2500
Adama, Ethiopia
Tel: 251 911384739
Fax: 251 221114622
Fekadumara.me@yahoo.com

Ethiopian Association of Organic Agriculture (EAOA)
Addisu Alemayehu
PO Box 14230
Addis Ababa
Tel: 251 114197779
Fax: 251 114197780
alfrd05@yahoo.com

GTZ Support Programme to the AU and ECA
Christelle Weekend
PO Box 12631
GTZ office, Yewubdar Building Africa Avenue
Addis Ababa
Tel: 251 910122062
christelle.weekend@gtz.de

Dirk Heinrich
Tel: 251 910122061
dirk_heinrich@gmx.de

Philipp Denzinger
Tel: 251 9110122062
philippdenzinger@ecbp.bic

ICIPE Kenya
Zeyaur Khan
PO Box 30772
Nairobi, Kenya
Tel: 254 208632000
Fax: 254 208632001
zkhan@icipe.org
Institute for Sustainable Development
(ISD)
Hailu Araya
P.O. Box 171 Code 1110
Addis Ababa
Tel: 251 911246046
Fax: 251 116186769
hailuara@yahoo.com

Sue Edwards
Tel: 251 116186774
Fax: 251 116186769
sustainet@yahoo.co.uk / sosena@gmail.com

Solomon Hailemariam
Tel: 251 911666790
Fax: 251 116186769
Marta Mesfin
Tel: 251 911424693
Fax: 251 116186769

Dereje Gebre Michael
Tel: 251 911243327
Fax: 251 116186769
isdbios@ethionet.et

Azeb Worku
Tel: 251 116186769
Fax: 251 116186769
azworku@yahoo.com

Ministry of Agricultural & Rural Development
Aberra Deressa
Addis Ababa
Tel: 251 911203871

Seeds of Survival International
Melaku Worede
Tel: 251 115530925
melakuwu@ethionet.et

Tigray Bureau of Agriculture and Rural Development
Belete Tafere
P.O. Box 10
Mekele
Tel: 251 344408819
Fax: 251 344403710
btafere2001@yahoo.com

Mezgebe Tsegay
PO Box 1514
Tel: 251 914709609
Fax: 251 344403710
mezgebetsegay@yahoo.com

GERMANY
Eljojofe e.V.
Claudia Pfifer
Forshweg 23
07749 Jena
Tel: 251 115546140
eljojofe@gmx.net

KENYA
Ilongo Western Nursery Organisation
Noah Imbaha Absolom
P.O. Box 2672
30200 Kitale, Kenya
Iwno1980@yahoo.com / ahono_olembo@yahoo.com

Kenyan Institute of Organic Farming (KIOF)
John Njoroge
P.O. Box 34972
00100 Nairobi
Tel: 254 733799072
kiof@iconnect.co.ke

Ministry of Agriculture
Amatha Churchill
P.O. Box 4321
00200 Nairobi
Tel: 254 733809864
Fax: 254 202725774
amatha@kilimo.go.ke
Kenneth Ayuko  
Kilimo House  
P.O. Box 30028  
GPO 00100 Nairobi  
Tel: 254 202718870  
Fax: 254 202711149  
ayuko@kilimo.go.ke / jakagumba@gmail.com

Monica Mueni  
P.O. Box 30028  
00100 Nairobi  
Tel: 254 725777217  
Fax: 254 202725774  
monicamueni2004@yahoo.com

PELUM-Kenya  
Zachary Makanya  
P.O. Box 6123  
01000 Thika, Kenya  
Tel: 254 6731686  
Fax: 254 722861371  
makanya@pelum.net / zmmakanya@yahoo.co.uk

MADAGASCAR  
Ministry of Agriculture, Livestock & Fisheries  
Micheline Raoelison  
BP 301 Anosy  
Madagascar  
Tel: 261 331250385  
sri@maep.gov.mg / raomich@yahoo.fr

MALAWI  
Malawi Embassy  
Esther Kamlongera  
P.O. Box 2316  
Addis Ababa  
Tel: 251 113711280 / 911565935  
Fax: 251 113719742  
malemb@telecom.net.et

James D. Kalilangwe  
Tel: 251 113711280  
Fax: 251 113719742  
kalilangwe@yahoo.com

MALI  
Mali Institute of Rural Economy  
Niaba Teme  
IER BP 258  
Bamako  
Tel: 223 66642055  
teme55@yahoo.com

Ministry of Agriculture  
Planning and Statistics Department  
Institute for Research & the Promotion of Alternative in Development  
Salikou Sanogo  
Tel: 223 20222324  
Fax: 223 76389710  
mkourala@yahoo.fr / asamake@ml.refer.org

NIGERIA  
Environmental Rights Action  
Bassey Nnimmo  
214 Uselu-lapus Road  
Benin City, Nigeria  
Tel: 234 8037274395  
Nnimmo@eraction.org

University of Ibadan  
Department of Agronomy  
IFOAM – Nigeria / Nigerian Organic Agriculture Network  
Olugbenga Adeoluwa  
Tel: 234 8035709365  
adeoluwaoo@yahoo.com

PHILIPPINES  
Indigenous Peoples’ Association of the Philippines  
Lorenza Daguitan  
MRDC, Makamkamlis, Sagada 2619  
Mountain Province  
Tebtebba Office, Roman Ayson Road  
Baguio City, Philippines 2600  
Tel: 63 744447703  
Fax: 63 744439459  
flordaguits@yahoo.com
RWANDA

BAIR
Aloys Semakuza
BP 241 Gisenyi
Tel: 250 08414527
Fax: 251 540727
sealoys@yahoo.fr

SOMALILAND

Bawaaqo Voluntary Organization (BVO)
Khadra Omer
Hargeisa
Tel: 252 2442109
khadra.bvorg@yahoo.com

SUDAN

Ahfad University for Women
Sumaia Elsayed
P.O. Box 167
Umduroman
Tel: 249 12138583
Fax: 249 183742353
sumaiaalsayed@yahoo.com

Sudanese Women General Union (SWGU)
Hayat Ahmed
Tel: 249 923436800
Health_hayat@yahoo.com

SWEDEN

Gothenburg University
Menale Kassie
PO Box 640
40530 Gothenburg
Tel: 46 317866391
Fax: 46 317861326
menale.kassie@economics.gu.se

SIDA/Sustainable Agriculture Department for Economic Opportunities
Anita Ingevall
1025 Stockholm
Tel: 46 86985356
Fax: 46 86985653
anita.ingevall@sida.se

SwedBio
Pernilla Malmer
P.O. Box 7007
75007 Uppsala
Tel: 46 8818671345
Fax: 46 18300246
pernilla.malmer@cbm.slu.se

Swedish Embassy
Aklog Laike
Addis Ababa
Tel: 251 115180000
aklog.laike@foreign.ministry.se

Swedish Society for Nature Conservation (SSNC)
Agneta Liljestam
P.O. Box 4625
11691 Stockholm
Tel: 46 87026563
Fax: 46 87020855
agneta.liljestam@naturskyddsforeningen.se

Swedish Society for Nature Conservation SSNC
Karin Höök
P.O. Box 4625
11691 Stockholm
Tel: 46 87026563
Fax: 46 87020855
karin.hook@naturskyddsforeningen.se
TANZANIA

Action for Environment & Development (AGENDA)
Bashiru Hassani
P.O. Box 77266
Dar es Salaam
Tel: 255 713425442
Fax: 255 222461054
bkashoba_74@yahoo.com

Ministry of Agriculture, Food Security and Cooperatives
National Food Security Division
Ombaeli Lemweli
P.O. Box 9192
Dar es Salaam
Tel: 255 0222865950
Fax: 255 0222865951
lemweli@yahoo.com

UGANDA

AgroEco / Uganda
Alastair Taylor
PO Box 71982
Kampala, Uganda
Tel: 256 772485206
Fax: 256 414268461
taylor@agroeco.ug

Development of the Rural Economy
Dolera Jackson
P.O. Box 333
Masindi
Tel: 256 772680098
Fax: 256 772680098
jacksondole@gmail.com

East African Farmers' Federation
Chebet Maikut
P.O Box 16014
Kampala
Tel: 256 752609414
Fax: 256 414230748
Chmaikut@yahoo.com

Ministry of Agriculture, Animal Industry & Fisheries
Dinah Kasangaki
P.O. Box 102
Entebbe
Tel: 256 772483099
dkkasangaki@yahoo.com

Nile Development Foundation / Mutunda Integrated Farm
Idule-Amoko
P.O. Box 3205
Kampala
Tel: 256 782904448
niledf@excite.com / idle_amok@yahoo.com

Ugandan Martyrs University
Charles Ssekkyewa
P.O. Box 5498
Kampala
cssekkyewa@umu.ac.ug / africanorganic
center@umu.ac.ug

UNITED KINGDOM

Institute of Science in Society (ISIS)
Mae-Wan Ho
29 Tytherton Road
London
N19 4PZ UK
Tel: 44 2072725636
m.w.ho@I-sis.org.uk

Peter Saunders
Tel: 44 2072725636
Fax: 44 2078482017
peter.saunders@kcl.ac.uk

ZAMBIA

Lyambai Institute of Development
Kusiyo Mbikusita Lewanika
P.O. Box 910415
Mongu, Zambia
Tel: 260 977676642
kusiyml@hotmail.com
Organic Producers & Processors Association of Zambia (OPPAZ)
Bernadette Lubozhya
P.O. Box 3129
Parliament Bldg
Lusaka, Zambia
Tel: 260 977826571
bhlobzhya@yahoo.com / lobzhya@yahoo.com

AIPAD Trust
Medicine Masiiwa
59 Mendel Road
Avondale, Harare
Tel: 263 4307934
Fax: 263 4307937
aipadtrust@aipad.co.zw

Ministry of Agriculture
Mukura Tamuka
Nsunsunyana Building
No. 7 Borrowdale Road
Harare
Tel: 263 912287 942 / 4797443
Fax: 263 4797423 / 40933
tmukura@gmail.com / mukuratj@yahoo.com

INTER-GOVERNMENTAL ORGANISATIONS

African Union / Department of Rural Economy and Agriculture
Abderrahame Khecha
PO Box 3243
Addis Ababa, Ethiopia
Tel: 251 912214708
Fax: 251 0115517844
khechaa@yahoo.fr

Abebe Haile-Gabriel
Tel: 251 111517700
Fax: 251 0115517844
abebehg@africa-union.org

Almami Dampha
Tel: 251 111517700
Fax: 251 0115517844
Damphaalmami@yahoo.com

Ben Ammar Mehdi
Tel: 251 111517700
Fax: 251 0115517844
mehdiieg@gmail.com

Fatoumata Ndoye
Tel: 251 0115517900
Fax: 251 0115511299
fnjallow@yahoo.com

Janet Edeme
Tel: 251 911683126
edemej@africa-union.org

Julius Kagambr
Tel: 251 115517700
kkggzx@yahoo.com
Sarah Oleombo
Tel: 251 911541574
ahono_olembo@yahoo.com

Tumusiime R. Peace
Tel: 251 115525844
Fax: 251 115525835
TumusiimeR@africa-union.org

Economic Commission for Africa (ECA)
Taro Boel
PO Box 3005
Addis Ababa
Fax: 251913544180
boel@un.org

INTERNATIONAL NON-GOVERNMENTAL ORGANIZATIONS

International Food Policy Research Institute (IFPRI) in ILRI
Kwadwo Asenso-Okyere
P.O. Box 5689
Addis Ababa
Tel: 251 11687462325
Fax: 251 116462927
k.asenso-okyere@cgiar.org
Millennium Institute/International Assessment of Agricultural Science and Technology Development (IAASTD)
Hans Herren
2200 Wilson Boulevard, Suite 650
Arlington, VA 22201
3357 USA
Tel: 1 7038410048
Fax: 1 7038410050
hansrherren@me.com / hh@millennium-Institute.org

Third World Network (TWN)
Hira Jhamtani
131 Jalan Macalister
10400 Penang, Malaysia
semestha@yahoo.com
Lim Li Ching
Tel: 603 23002585
Fax: 603 7423002595
limliching@myjaring.net
Martin Khor
Geneva
Tel: 60 42266159
mkhor@igc.org

UNITED NATIONS

Food and Agriculture Organization of the United Nations (FAO)
Natural Resources Management and Environment Department
Alexander Mueller
Viale Terme di Caracolla
00153 Rome, Italy
Alexander.Mueller@fao.org

Nadia Scialabba
Tel: 39 657056729
nadia.Scialabba@fao.org

Sub-Regional Office for Eastern Africa
Mafa Chipeta
PO Box 5536
Addis Ababa, Ethiopia
Tel: 251 115159444
Fax: 251 115155266
mafa.chipeta@fao.org

Kristina Henricson
Tel: 251 115159444
Fax: 251 115155266
kristina.henricson@fao.org

Meshak O. Malo
Tel: 251 913110206
meshack.malo@fao.org

United Nations Development Programme (UNDP)
Valdmar Holmgren
P.O. Box 5580
Addis Ababa
Tel: 251 115444205
valdemar.holmgren@undp.org

United Nations Commission on Trade and Development (UNCTAD)
Trade and Sustainable Development Section/Division on International Trade
Sophia Twarog
Palais des Nations
1211 Geneva 10
Tel: 41 229175082
Fax: 41 37229170247
sophia.twarog@unctad.org

World Food Programme (WFP)
Kassu Kebede
P.O. Box 25584
1000 Addis Ababa
Tel: 251 115515188 / 91139116
Fax: 251 115514988