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Ethiopian Institute of Agricultural Research

Externally-funded Research Projects Directory

2011

Preface

The Ethiopian Institute of Agricultural Institute (EIAR) is a non profit-making federal government research institution established in 1960's having a long-term mandate in availing improved agricultural technologies, knowledge and information on crops, livestock and natural resources for Ethiopian farmers and agro-pastoralists in a sustainable manner to make Ethiopia fit for the future. To meet its mandates, the institute acts individually and in partnership with local and international organizations. The main research fund (90%) comes from the Government, and the rest from local and external funding agents.

This document gives the 2011 active projects' profile in the institute. Loans for Rural Capacity Building Project (RCBP) and East African Agricultural Productivity Project (EAAPP) are also included. Described are titles of projects, funding agents, starting and ending dates, amount of fund, objectives and expected outputs.

The document also describes case teams, i.e. cross-cutting; cereals; pulses, oil and fiber crops (POF); horticulture; crop protection; and biotechnology case teams. Other projects in livestock, forestry, soil and water, and agricultural mechanization are indicated.

EIAR uses different criteria to accept external funded projects. The problem that the project intends to address is the priority area considered by the institute. The other criterion requires projects to have a capacity building component which enables the system to rely on its own in strengthening the knowledge and skills of researchers, build physical capacities such as vehicles, laboratory equipment, greenhouse, in the long term. Workload and budget shares also have roles in the acceptance of projects.

**Ethiopian Institute of Agricultural Research
List of Externally Funded Projects 2011**

No.	Project title	Case team	Starting date	Completion date	Responsible Center	Responsible person	Status	Financer	Grant amount	Objectives	Output
1	Making Ethiopian agriculture climate resilient: towards networking and coordination to mainstream climate change adaptation into food security and sustainable development	All rounded	June, 2010	May, 2012	Melkassa	Girma Mamo	Ongoing	Rockefeller Foundation	USD 420,000.00	* form a consortium that ensures networking among climate and agriculture institutions for mainstreaming climate change adaptation * develop a standard methodological framework of monitoring and evaluation tools for effective and climate change mainstreaming	* office space setup/strengthened and program staff at identified institutions with essential facilities * climate change consultant and project assistants recruited and placed at respective institutions * national climate database standardized and computerized
2	The project of enhancing development and dissemination of agricultural innovations through farmers research groups (FRGs) in Ethiopia	All rounded	Dec, 2009	Dec, 2014	areas corresponding to respective research topics	Dawit Alemu	New	JICA	Birr 2,673,700.00	* adapted appropriate technologies and package through the FRG approach for sustainable and improved agricultural productivity of the target FRG farmers	* application of the FRG approach scaled out in the National Agricultural Research System * appropriate technologies adapted and packaged in focused priority research areas through the FRG approach
3	Public-private partnership on the promotion of the diverse use of Effective Microorganisms (EM) technology in Ethiopia	All rounded	Jan, 2010	Dec, 2011	Holetta	Bayeh Mulatu	New	RCBP	Birr 237,475.00	* evaluate the potential of EM technology in controlling fusarium wilt of chickpea * evaluate the potential of EM technology in controlling bulb rots of garlic and shallots * evaluate the potential of EM technology in controlling coffee wilt * evaluate the potential of EM technology in controlling avocado root rot * evaluate the potential of EM in controlling enset and potato wilts	* the use of EM technology for composting agro industry byproducts and wasted biomass in commercial farms adopted * pollution from coffee pulping stations significantly reduced and the health of rivers and streams restored * through the use of EM compost soil fertility enhanced and crop productivity improved
4	Testing the adaptation and performance of introduced commercial sorghum hybrids in Ethiopia	Cereals	June, 2011	Nov, 2011	Melkassa	Taye Tadesse	New	General Chemicals & Trading PVT	Birr 90,000.00	* identify high yielding, early maturing, disease and insect pest resistant sorghum hybrids which are suitable for general cultivation	* at least one variety of sorghum recommended
5	Testing the adaptation and performance of introduced commercial maize hybrids in Ethiopia	Cereals	Jan, 2011	Dec, 2011	Bako	Mosisa Worku	New	General Chemicals & Trading PVT	USD 3,600.00	* identify high yielding, early maturing, disease and insect pests resistant maize hybrids which are suitable for general cultivation	* at least one variety of maize recommended

No.	Project title	Case team	Starting date	Completion date	Responsible Center	Responsible person	Status	Financer	Grant amount	Objectives	Output
6	Biotechnology for the genetic improvement of the Ethiopian cereal - Tef	Cereals	Feb, 2011	June, 2013	Debre Zeit	Kibebew Assefa	Ongoing	Bern University	USD 205,230.00	<ul style="list-style-type: none"> * test the performance of candidate tef lines against lodging at multi-location sites in Ethiopia * introgress the best performing tef lines to the high yielding and locally adaptable lines and investigate their performance * train on Ethiopian scientist at PhD level and several others with short-term training * enable Ethiopian researchers to participate in international conferences and workshops * provide Ethiopian researchers with supplies or consumables that are not locally available 	<ul style="list-style-type: none"> * Lodging tolerant cultivars * Lodging tolerant and high yielding cultivars * PhD and short term training for Ethiopian students
7	Delivering new sorghum and millet innovations for food security and improving livelihoods in eastern Africa	Cereals	Jan, 2011	Dec, 2013	Holetta	Belayneh Admasu	Ongoing	ILRI	USD 66,953.00	<ul style="list-style-type: none"> * evaluate, promote and adopt sorghum and finger millet genotypes for drought and disease tolerance * develop breeding tools and technologies for high yielding and adapted finger millet in eastern Africa 	<ul style="list-style-type: none"> * drought and other abiotic stress tolerant novel sorghum genotypes evaluated on farm and adopted by farmers and stay green QTLs mapped on Sorghum genome * finger millet genotypes evaluated and characterized for drought and blast tolerance
8	Development and popularization of weaning foods from QPM	Cereals	Sep, 2010	Sep, 2011	Melkassa	Mulugeta Tamer	Ongoing	CIMMYT	USD 6,000.00	<ul style="list-style-type: none"> * develop infant foods from QPM, thereby increase maize food utilization * promote QPM varieties of infant food from QPM to health extensionists, home economists and women farmers 	<ul style="list-style-type: none"> * screen germplasm from various origins at key screening sites, including hot spot sites for particular stresses * mechanisms for seed companies to partner with breeding programs in release and commercialization of new varieties developed * seed systems analyzed to identify constraints to farmer access to improved varieties
9	Demonstration and popularization of Improved highland maize varieties and management practices in southern Ethiopia	Cereals	Jul, 2010	July, 2011	Kulumsa	Bayisa Assefa and Gudeta Napir	Ongoing	CIMMYT	Birr 82,786.00	<ul style="list-style-type: none"> * demonstrate and popularize improved highland maize technologies to farmers and extension personnel * bring available research recommendations to the awareness of agricultural experts and development agents prior to promoting them 	<ul style="list-style-type: none"> * farmers aware of improved maize varieties with their package of practices * improved maize varieties and production packages disseminated to the farmers' in the region so that maize production and productivity will be increased
10	Development of dual-purpose sorghum varieties for moisture stressed areas of Ethiopia	Cereals	Apr, 2009	July, 2010	Melkassa	Taye Tadesse	Ongoing	ILRI	Birr 309,600.00	<ul style="list-style-type: none"> * evaluate the dual-purpose sorghum varieties 	sorghum varieties fitting the dual purposes released
11	Enhancing rice production through improved seed production in Ethiopia	Cereals	June, 2010	Nov, 2010	Werer	Desta Gebre	Ongoing	Hisato Suzuki (MoARD)	USD 48,475.00	<ul style="list-style-type: none"> * multiply breeder and basic seeds of NERICA-4, NERICA-1 and NERICA-7 rice varieties at Melka Werer Research Center 	<ul style="list-style-type: none"> * about 102 tones of genetically pure seeds of the rice varieties produced and disseminated to end users * productivity, total production and quality of rice increased and sustainable rice farming system established in the country

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12	Study on the potential of <i>Amaranthus</i> species for food security in Ethiopia	Cereals	2009	2012	Kulumsa	Wogayehu Worku	New	RCBP	Birr 354,150.00	* promote the productivity and utilization of <i>Amaranthus</i> species into full fledged crop * develop technical manuals for cultivation and preparation of foods from <i>Amaranthus</i> species	* Technical manuals for cultivation and preparation will be published
13	Genetic Improvement, Technology Dissemination, and Seed System Development in African Chloridoid Cereals (MF-CCRP).	Cereals	Jan, 2006	Apr.30, 2010	Debre Zeit	Kibebew Assefa	Ongoing	McKnight Foundation	Birr 8,096,000.00	* socio-economic base-line survey (finger millet only) * characterization and evaluation of finger millet germplasm * develop, popularize and demonstrate high-yielding and better seed quality tef and finger millet varieties and management practices * characterize and develop tef and finger millet seed production and supply schemes * molecular genetics of tef * value addition (both tef and finger millet) and farmer empowerment	* socioeconomic baseline survey for finger millet done * finger millet germplasm characterization and evaluation conducted * high-yielding and better seed quality tef and finger millet varieties and management practices developed, popularized and demonstrated * tef and finger millet seed production and supply schemes characterized and developed * molecular genetics of tef * value addition (both tef and finger millet) * farmers empowered
14	Development and dissemination of normal and nutritionally enhanced highland maize varieties for eastern and central Africa	Cereals	Nov, 2009	2010	Ambo	Demisew Abakemal	Ongoing	ASARECA	USD 45,538.00	* introduce and evaluate highland maize germplasm from exotic and local sources * evaluate highland maize trials to speed up the release process	* improved highland maize germplasm available for further use in the ECA region * increased availability of seeds of elite and released varieties
15	The effect of maize culture on Malaria Transmission	Cereals	Jan, 2010	Jan, 2011	Jimma	Habte Jefar	Ongoing	Boston University	USD 12,602.00	* determine whether one aspect (maize cultivation) of agro-ecological change sweeping Africa contributes to the presently increasing distribution and intensity of plasmodium falciparum malaria in the region	* discussion with Omonada Wereda agriculture and rural development officers on project implementation * controlled and uniform planting of maize plots (staggered planting of neighboring farmers avoided)
16	Improving access to rice seed: a contribution to the emergency rice initiative	Cereals	May, 2009	Apr, 2011	Werer	Desta Gebre	Ongoing	WARDA	USD 74,000.00	release different varieties of rice seed to farmers	* partners and procedures to produce quality registered and/or certified seed clarified * quality of produced seed verified under EIAR supervision * farmers who will benefit from produced seeds and mechanisms to distribute seeds in 2010 identified
17	Enhancing household income of farmers through marketing of value added food products from sorghum and millet	Cereals	2010	2011	Melkassa	Senayit Yetneberk	New	INTSORMIL-CRISP	USD 10,000.00	develop value add to sorghum foods and beverage to increase skill and awareness about added value on sorghum and millets foods (200)	develop new skill and awareness of added value on sorghum and millet

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18	Harnessing opportunities for productivity enhancement (HOPE) of sorghum and millet in Sub-Sahara Africa and South Asia	Cereals	Jan, 2010	Jan, 2013	Melkassa	Taye Tadesse	Ongoing	ICRISAT	Birr 363,852.00	* target opportunities for technology development and delivery to increase impacts * improve sorghum cultivars and management options to increase productivity * improve finger millet cultivars and management options to increase productivity and production	* new varieties of sorghum and finger millet released
19	Breeding hybrid sorghum for improved productivity and resistance to biotic and abiotic stresses	Cereals	2008	2010	Melkassa	Taye Tadesse	Ongoing	AGRA	USD 240,000.00	* develop high yielding sorghum hybrid cultivars resistant to biotic and abiotic stresses * develop and promote improved cultivars in major sorghum producing regions * strengthen capacities of probate seed merchants to facilitate multiplication and distribution of sorghum hybrids	* at least three high yielding sorghum hybrids resistant to biotic and abiotic stresses identified * all the selected elite sorghum hybrids characterized for various end-use qualities * the new hybrids and at least two existing technologies demonstrated to at least 300 target stakeholders in selected regions * sufficient quantity of breeder seeds of improved hybrid and varieties multiplied and delivered to seed multipliers * at least 20 seed growers and seed company staffs acquired basic skills on maintenance and multiplication of sorghum parental lines
20	Strengthening malt barley research and technology transfer: a support project	Cereals	Oct, 2009	2013/2014	Kulumsa	Solomon Gelelcha	Sintayehu	Asela Malt Factory	Birr 9,376,400.00	* generate/adopt improved technological package for malt factories * promote improved technologies to malt barley growers	* 2 to 4 improved malt barley varieties with desirable malt qualities and at least 6% yield advantage released * 200q breeder and 2000q pre-basic seeds of improved malt barley will be produced in 5 years
21	Up-scaling of soil water management technologies and drought tolerant varieties for increased maize productivity in East and central Africa	Cereals	Aug, 2009	Aug, 2010	Melkassa	Habamu Admasu	Ongoing	ASARECA	USD 30,135.00	* facilitate the uptake of proven soil and water management technologies with drought tolerant maize varieties in drought prone areas of Tanzania, Kenya and Ethiopia * strengthen the capacity for enhancement of promotion and utilization of soil and water management technologies with drought tolerant maize varieties in the region	* proven soil-water management technologies and drought tolerant maize varieties identified, documented and availed to the uptake pathways * capacity of farmers, extension workers and other partners to enhance promotion and utilization of improved soil-water management technologies with drought tolerant maize varieties strengthened
22	Integrated Striga management for improved sorghum productivity in East and central Africa	Cereals	June, 2009	Nov, 2010	Melkassa	Taye Tadesse	Ongoing	ASARECA	USD 33,567.50	* increase yield per unit area * reduce cost of production * adopt at least 3 integrated Striga management technologies by farmers in the participating countries	* mechanism to facilitate multi-stakeholder collaboration on parasitic weed management established and operational * farmers' access to integrate Striga management (ISM) technologies improved

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23	Integrated technologies for drought mitigation and increasing smallholder sorghum productivity	Cereals	July, 2009	Dec, 2010	Melkassa	Girma Mamo	Ongoing	ASARECA	USD 523,762.90	* identify and document innovative sorghum production technologies for the mitigation of drought stress * develop and validate integrated sorghum production technology options for drought prone areas	* innovative sorghum production technologies for the mitigation of drought stress identified, developed, integrated and validated * stakeholders' capacity on the use of sorghum best bet drought management package and sustainable market linkages strengthened
24	CIMMYT for National Maize Research Program	Cereals	2010	Jan, 2010	Ambo, Wendogenet, Bako, Jimma & Melkassa	Mosisa Worqu	New	CIMMYT	USD 139,000.00	different small activities to be conducted	* farmers will be aware of improved maize varieties with their package of practices * improved maize varieties and production packages disseminated to the farmers' in the region so that maize production and productivity will be increased
25	Evaluation of maize varieties (20) at different locations	Cereals	2009	2010	Bako	Mosisa Worqu	Ongoing	Ethiopian Seed Enterprise	Birr 13,400.00	* evaluate 20 maize varieties	recommendation of varieties
26	Sustainable Intensification of Maize-Legume Cropping System for Food Security in Eastern and South Africa (SIMLESA)	Cereals	Jan, 2010	Dec, 2013	Melkassa/Pawe/Bako/Hawassa maize	Dagne Wagera	Ongoing	SIMLESA	Birr 20,000,000	* characterize maize-legume production and input and output value chain systems and impact pathways, and identify broad systematic constraints and options for field testing * test and develop productive, resilient and sustainable smallholder maize-legume cropping systems and innovation systems for local scaling out * increase the range of maize and legume varieties available for smallholders through accelerated breeding, regional testing and release and availability of performance data * support the development of regional and local innovation systems * capacity building to increase the efficiency of agricultural research today and in the future	* initial characterization of ten maize-legume farming systems and selection of thirty research sites/communities * understanding of maize and legume input and output markets and value chains including chain constraints and opportunities, costs and pricing patterns associated with the ten farming systems * several farm household system options which are risk reducing and productivity enhancing for each of the ten farming systems for testing in the research sites/communities identified * options for systems intensification and diversification that reduce risk in the ten farming systems using system modeling identified
27	Verification (adaptation) of imported maize hybrids in Ethiopia	Cereals	Feb, 2010	Oct, 2010	Bako	Mosisa Worqu	New	Alemayehu Mekonnen Private Farm	USD 4,800.00	test the adaptability of 4 maize hybrids	registration of one variety
28	Participatory wheat variety selection, adoption and seed multiplication and dissemination for low and high moisture stress areas of Ethiopia	Cereals	June, 2008	May.31, 2011	Kulumsa	Bedada Girma	Ongoing	AGRA	USD 244,000.00	* generate feedback information to breeders and agronomists on technology need of farmers * identify wheat varieties suitable for low moisture stress lowlands and for waterlogged Vertisols highlands and produce seed of new varieties	* technical and socioeconomics wheat production constraints identified in selected lowland wheat growing areas * variability created to facilitate selection for desirable types

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29	Durable Rust Resistance in Wheat /DRRW/Cornell University	Cereals	Feb, 2008	Jan.31, 2011	Kulumsa	Bedada Girma	Ongoing	Task Order No. 1	USD 44,397.82	support rust screening activities in East Africa-Ambo	<ul style="list-style-type: none"> * laboratory and greenhouse facilities upgraded (Debre Zeit and Ambo) * field and irrigation facilities upgraded at Kulumsa * threat to wheat production from stem rust overcome * internet network installed * durable rust resistant wheat tetraploids identified
30	Breeder friendly high-throughput phenotyping tools to select for wheat adaptive traits for drought environments	Cereals	2008	2010	Kulumsa	Solomon Gelelcha	Ongoing	Generation Challenge Program (GCP)	USD 49,000.00	<ul style="list-style-type: none"> * develop and validate a field-based, low-cost, high throughput phenotyping system to assess crop water status, canopy size and functionality with the purpose of estimating patterns of crop water use on a seasonal basis while monitoring other major crop development traits * compare related lines to assess the relative impact of traits key to drought adaptation in different drought mega-environment * physiological and genotypic characterization of ICARDA lines selected for high performance under drought 	<ul style="list-style-type: none"> * location suitable for phenotyping identified and characterized, non-invasive phenotyping methods to detect drought adaptive traits information about genotyping available via GCP website and delivered as part of last workshop * trials undertaken in the CWANA region (Syria, Morocco, Ethiopia), Australia (summer and winter rainfall patterns) and CIMMYT (Obregon) (year 1-3) * ICARDA lines characterized for the combination of traits behind elite their performance under drought. Potential users: GCP breeders or pre-breeders across the CWANA or regions with similar drought pattern.
31	Accelerated seed multiplication	Cereals	2009	2011	Kulumsa	Solomon Gelelcha	Ongoing	USAID Famin Fund/ICARD A	Not specified	combat the threat of stem rust in wheat	<ul style="list-style-type: none"> * Ug99 and major rust resistant varieties in Ethiopia identified * fast-track release of resistant varieties carried out * popularization and promotion of stem rust resistant varieties with farmers * accelerated seed multiplication of promising lines and released varieties for distribution to farmers/seed pack distribution to small-scale farmers
32	Population, genetic structure, gene flow, and genetic diversity of wild sorghum	Cereals	January, 2008	May, 2010	Melkassa	Asfaw Adugna	Ongoing	o State Univer	USD 20,000.00	<ul style="list-style-type: none"> * estimate <i>in situ</i> outcrossing rates of wild sorghum populations using microsatellite markers * quantify the levels of gene flow within and among populations of wild sorghum using population genetic methods * determine the distribution of microsatellite variation and phenotypic variation within and among different populations of wild sorghum to aid efforts to conserve genetic diversity * assess population genetic structure of wild populations collected from near or cultivated sorghum fields with those outside these areas 	<ul style="list-style-type: none"> * <i>in situ</i> outcrossing rates of wild sorghum populations estimated * the levels of gene flow within and among populations of wild sorghum quantified * the distribution of microsatellite variation and phenotypic variation within and among different populations of wild sorghum determined * ecotypic differentiation (seed dormancy and longevity) among the different populations is determined

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33	Performance, evaluation and adaptation study of Foxtail millet hybrids in Ethiopia	Cereals	July, 2009	Mar, 2010	Melkassa	Taye Tadesse	Ongoing	Zhangjiakou Municipal Academy of Agricultural Science	Birr 93,564.00	* establish mutual commitment and partnership between EIAR and ZJKMAAS that lead to identification of the best adapting Foxtail millet hybrids, management practices developed at ZJKMAAS	at least one variety of Foxtail millet hybrids will be released
34	Testing the adaptation and performance of introduced commercial sunflower hybrids in Ethiopia	POF	June, 2011	Nov, 2011	Holetta	Bulcha Weyessa	New	General Chemicals & Trading PVT	Birr 85,883.50	* identify, early maturing, disease and insect pest resistant sunflower hybrids suitable for cultivation	* one or more hybrids will be registered to be cultivated in the country. This will contribute for a long lasting sunflower production framework to produce economic, social and environmental benefits
35	Testing the adaptation and performance of introduced commercial sunflower hybrids in Ethiopia	POF	June, 2011	Nov, 2011	Holetta	Bulcha Weyessa	Ongoing	Ethio Flora PLC	Birr 73,905.00	* identify high yielding, early maturing, diseases and pest resistant sunflower hybrid/hybrids suitable for general cultivation	one or more hybrids will be registered to be cultivated in the country. This will contribute for a long lasting sunflower production framework
36	Value added bean technologies for enhancing food security, nutrition, income and resilience to cope with climate change and variability/challenges in eastern Africa	POF	Jan, 2011	Dec, 2013	Melkassa	Setegn Gebeyehu	Ongoing	ILRI	USD 153,489.00	* select canning bean varieties that meet the requirement of processing industry * determine the effects of soil fertility, water harvesting technologies and cropping patterns on the levels of Fe and Zn concentration in market preferred bean varieties * disseminate drought tolerant varieties and complementary agronomic and management technologies in drought prone environments	* canning bean varieties that meet the requirements of processing industry developed * effects of soil fertility, water harvesting technologies and cropping patterns on the levels of Fe and Zn concentration in market preferred bean varieties determined
37	Adaptation of rapeseed variety (hybrid) under Ethiopian condition	POF	June, 2010	Nov, 2010	Holetta	Bulcha Weyessa	Ongoing	Arssi Agricultural Development Enterprise (AADE)	Birr 20,000.00	* test yield performance, maturity date, lodging tolerance, Erucic Acid content, disease and pest resistant	* rape seed hybrid namely JURA will be released to users and production framework will be established to produce the following economic, social and environmental benefits
38	Improving tropical legume productivity for marginal environments in Sub-Saharan Africa - Phase II	POF	Oct, 2010	Sep, 2014	Debre Zeit	Asnake Fikre	Ongoing	ICRISAT	USD 212,300.00	* enhance, evaluate and analyse germplasms (UK and ICRISAT-via lab services) towards marker assisted breeding * facilitate the already started training * enhance the capacity of the improvement program	* transfer of essential markers and test * training on skill development on research capacity building provided
39	Improving productivity, quality and marketing of sesame, noug and linseed in Ethiopia	POF	Dec, 2009	Dec, 2010	Holetta	Adugna Waqjera	Ongoing	Ethio-Netherlands Public Partnership on Oilseeds	Birr 3,405,000.00	* improve productivity, quality and marketing of sesame, noug and linseed in order to increase income and improve farmers' livelihood	* quality seeds of 40q sesame, 30q linseed and 20q Noug varieties multiplied and distributed * about 100 indigenous and 50 exotic germplasm collected
40	Understanding and managing the genetic diversity of noug (<i>Guizotia abyssinica</i>) for its implementation	POF	Jul, 2009	Nov, 2010	Werer	Geremew Terefe	Ongoing	Bioversity International	USD 4,225.00	* increase the role of neglected and underutilized species (NUS) in food security, poverty alleviation and improvement of rural livelihoods, exemplified with research on noug	* patterns of genetic and phenotypic diversity in Noug and related wild relatives established * <i>ex situ</i> collections in Ethiopia enhanced

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41	Development and promotion of improved sesame production technologies to Humera and Metema areas	POF	Jan, 2009	Dec. 2011	Werer	Geremew Terefe	New	RCBP	Birr 953,478.96	* develop, verify and demonstrate improved agronomic practices; * determine fertilizer requirements of sesame; * develop, demonstrate and popularize seed bug management techniques; * transfer improved sesame production technologies	agronomic practices of sesame production around Humera and Metema developed
42	Supporting nutrition and health, food security, environmental stresses and market challenges that will contribute to improve the livelihood and create income of resource poor smallholder families in Sub-Saharan Africa	POF	Dec, 2009	Jan, 2013	Melkassa	Setegn Gebeyehu	Ongoing	CIAT	USD 51,298,000	* identify and develop opportunities, strategies and technologies to improve bean productivity and product quality in ways that contribute to more resilient and sustainable land use by resource poor farmers * improve food, nutrition security and health of vulnerable communities * link farmers to equitable and sustainable bean markets * reach a diverse clientele of end users with adapted and preferred bean varieties, environmental stress management options and micronutrients bean based products	* increased access and utilization of improved bean varieties resistant to multiple environmental stresses * farmers access, adapt and use cost effective, integrated environmental stress management options to better manage soil fertility/moisture and crop pests/diseases and increase their capacity to respond to stress * increased access and utilization by service providers, farmers and bean consumers of micronutrient-rich bean varieties and products in the diets of the vulnerable communities (children, women and PLWHA) to improve their nutrition and health
43	Improving tropical legume productivity for marginal environments in Sub-Saharan Africa (Tropical Legumes I)	POF	May, 2007	Apr.30, 2010	Debre Zeit	Million/Asna ke Fikre	Ongoing	GCP/ICRISAT	USD 1,047,701.00	* improve common bean productivity for marginal environments in Sub-Saharan Africa * improve chickpea productivity for marginal environments in Sub-Saharan Africa and Asia * provide training and capacity building for Sub-Saharan African scientists	* improved chickpea varieties provided: * modern genomic tools and knowledge and trait-marker associations for use in marker-assisted breeding
44	Integrating innovation for improving legumes productivity, market linkages and risk management in eastern and southern Africa	POF	Jan, 2008	Dec.31, 2010	Debre ziet	Asnake Fikre/Kibebe w Assefa	Ongoing	ICRISAT (IFAD)	Birr 1,023,000	* germplasm enhancement, evaluation and analysis (UK and ICRISAT-via lab services) towards marker assisted breeding * facilitation of the already started training * capacity enhancement of the improvement program	* transfer of essential markers and test * Training on skill development on research capacity building
45	Enhancing grain legumes productivity, and production and incomes of poor farmers in drought-prone areas of sub-Saharan Africa and South Asia (Common Bean TL II).	POF	Jan, 2007	Aug.31, 2010	Melkasa	Setegn Gebeyehu	Ongoing	ICRISAT	Birr 2,832,860.00	* develop technologies and accelerate seed production and delivery of the already adapted stress-tolerant varieties to poor farmers in drought prone areas	* tt least one drought-tolerant common bean variety developed * about 900,000 farmers get access to improve seeds through decentralized schemes * two researchers trained at PhD and MSc levels * more than 10,000 different promotional material prepared and distributed in major bean growing regions

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46	Evaluation and scaling up of new chemical and biological commercial products for improving and sustaining crop yields in selected agro-ecological zones in Sub-Saharan Africa	POF	Jan, 2009	Dec, 2011	Melkassa/Jimma, Pawe, Assosa, Holetta, Kulumsa, DZ, Werer	Setegn Gebeyehu	Ongoing	CIAT-TSBF	USD 108,000.00	* develop Product I (rhizobial inoculants), Product II (non rhizobial inoculant /microorganism) and Product III (non microbe)	* Product I (rhizobial inoculants), Product II (non rhizobial inoculant /microorganism) and Product III (non microbe) on soybean, haricotbean, fababean, chickpea, ground nut, maize, wheat, tef) developed
47	Variety verification trial on cotton	POF	May, 2010	May, 2011	Werer	Redwan Mohamed	New	Axum Greenline	Birr 137,995.00	* verify the adaptability of cotton hybrids	* at least one cotton hybrid registered
48	Potato varieties selected for testing	Horticulture	May, 2011	Nov, 2011	Holetta	Atsede Solomon	New	GIBAGRI Farm PLC	Birr 100,000.00	* identify high yielding, early and medium maturing, disease and pest resistant potato varieties suitable for small scale and commercial cultivation	* one to three commercial varieties will be registered to be cultivated in the country. This will contribute for a long lasting potato production framework to produce economic, social and environmental benefits
49	Quality seedling and sustainable production of temperate fruits	Horticulture	Dec, 2010	Nov, 2011	Holetta	Bayeh Mulatu	Ongoing	The Netherlands Development Organization (SNV)	Birr 922,500.00	* enable Business Organization and Access to Market clients to produce relevant, accurate and reliable financial reports that show their compliance with project agreement * give guidance to clients in developing acceptable accounting and internal control systems for their receipts and payments	* conduct baseline survey to assess the current status of the temperate fruit sector (characterization study, WAA infestation database, and general apple growing practices) * nursery established and plant material (scion) from foreign sources and resistant rootstock introduced * apple rootstocks from domestic and foreign sources are collected and screened for their resistance against the WAA. promising rootstock source(s) will be identified * grafted seedlings of the WAA resistant apple cultivar(s) are mass-produced and distribute to growers * technical manuals and guidelines for apple training are prepared training provided for apple growers groups (Farmers Research Group)
50	Soil fertility and soil health: critical factors in improving livelihoods and productivity in small-scale potato based farming system in Ethiopia and Uganda	Horticulture	June, 2010	May, 2013	Adet /Holetta	Semagn Asrede	Ongoing	CIP	Euro 71,400	* Improve the livelihoods of small scale farmers and sustainability of potato based cropping systems in Ethiopia and Uganda	* technologies developed to increase the efficacy of farm internal and external resources to supply nutrients for crops improve soil health * viable rotation systems developed and assessed for their ability to increase soil fertility and productivity and soil health reducing BW incidence
51	Date palm development in Afar Region	Horticulture	Dec, 2010	Dec, 2011	Werer	Abyot Aragaw	Ongoing	FAO	Birr 643,890.00	* evaluate the introduced high quality cultivars at different locations in the Region * enhance the technical capacity in the Region in date palm propagation, cultivation and production	* internationally recognized high quality date palm varieties introduced to the farming system of the Region * pastorals/agro-pastorals of the Region acquainted with improved date palm management practices

No.	Project title	Case team	Starting date	Completion date	Responsible Center	Responsible person	Status	Financer	Grant amount	Objectives	Output
52	Rapid multiplication and introduction of new releases of sweet potato varieties	Horticulture	Oct, 2010	Dec, 2011	Werer	Abyot Aragaw	Ongoing	FAO	Birr 428,526.00	* improve food security and income of vulnerable farmers through the introduction, multiplication and diversification of selected root and tuber crops, and awareness creation among farmers and development agents	* Disease free planting materials of at least three released sweet potato varieties multiplied and distributed to farmers and planting material producers for project Weredas and nurseries supported by FAO
53	The introduction and multiplication of new releases of cassava and taro varieties	Horticulture	Oct, 2010	Dec, 2011	Jimma	Wondifraw Teffera	Ongoing	FAO	Birr 288,540.00	* improve food security and income of vulnerable farmers through the introduction, multiplication and diversification of selected root and tuber crops, and capacity building of farmers and development agents	* disease free planting materials of at least three recently promising elite cassava varieties and nationally released varieties of taro multiplied and distributed to farmers and seed producers, including tissue cultured and acclimatized cassava seedlings for project nurseries supported by FAO
54	Introduction of commercial hybrid tomato, carrot, broccoli, cabbage and onion cultivars for verification	Horticulture	Sep, 2010	Feb, 2011	Melkassa	Selamawit K and Jibicho G	Ongoing	CROP GROW PLC	Birr 112,418.25	* assess and verify yield and quality performance, adaptability and acceptability of hybrid cabbage and carrot cultivars for release around the Central Rift Valley	at least one variety recommended
55	Introduction of commercial hybrid tomato and hot pepper cultivars for verification	Horticulture	Sep, 2010	Apr, 2011	Melkassa	Selamawit K and Jibicho G	Ongoing	ERA AGRI-LINK	Birr 20,020.00	* assess and verify fruit yield and quality performance, adaptability and acceptability of hybrid tomato and hot pepper cultivars for release around the Central Rift Valley	at least one variety recommended
56	Introduction of commercial hybrid tomatoes, onion, hot pepper, cabbage and lettuce cultivars for verification	Horticulture	Dec, 2010	May, 2011	Melkassa	Selamawit K and Jibicho G	Ongoing	Axum Greenline	Birr 68,647.95	* assess and verify fruit yield and quality performance, adaptability and acceptability of hybrid tomato and hot pepper cultivars for release around the Central Rift Valley	at least one variety recommended
57	Adaptation experiments of different vegetable varieties for local registration	Horticulture	sep, 2010	Feb, 2011	Melkassa	Selamawit K and Jibicho G	Ongoing	Markos PLC	Birr 81,390.75	* generate data on the overall performance of different vegetable varieties that will lead to local registration and wider use of these varieties	at least one variety recommended

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58	Exploiting the potential of potato and sweet potato to reduce food insecurity and dependency on cereals in SNNPR and Tigray	Horticulture	Oct, 2010	Sep, 2011	Holetta	Gebremedhin	Ongoing	CIP	USD 400,000.00	<ul style="list-style-type: none"> * Establish the foundation for sustainable and profitable potato seed system * Improve the efficiency of the agricultural input and ware potato output chain * Improve potato productivity and quality of product at farm level * Establish system for maintaining clean, virus free sweetpotato planting material at primary and secondary sites * Dissemination of clean SP planting material of appropriate varieties * Potential use of sweet potato as an animal feed * OFSP introduced and promoted based on an integrated approach * capacity strengthening and effective partnership development 	<ul style="list-style-type: none"> * at least 200 farmers participate in both field days in November 2010 and April 2011 * one document for cost of production of seed potato grown during Meher season 2010 developed
59	Evaluation of the sunflower varieties for their adaptability under Ethiopian condition	Horticulture	June, 2010	Nov, 2010	Holetta	Bulcha Weyessa	New	ASHRAF	Birr 65,959.00	<ul style="list-style-type: none"> * identify high yielding, early maturing, diseases and pest resistant sunflower hybrid/hybrids which are suitable for general cultivation 	<ul style="list-style-type: none"> * at least one hybrid registered to be cultivated in the country. This contributes in creating a long lasting sunflower production framework in the country
60	Vegetable seed production and distribution systems in different agro-ecologies of Ethiopia	Horticulture	Jan, 2009	Dec, 2011	Melkassa	Shimelis Aklilu	Ongoing	RCBP	Birr 400,000.00	<ul style="list-style-type: none"> * develop sustainable vegetable seed production and distribution systems; * produce sufficient quantity of breeder (10-15 kg) and pre-basic (50-100kg) seed of onion, tomatoes, pepper and shallots for popularization and distribution of new areas; * produce quality seeds through isolation for each seed production stages; * build facilities and capacity of research centers, to demonstrate and popularize improved seed production technologies to new areas; * identify specific season/location for different biennial vegetables * train community members to produce seed of onion, tomatoes, pepper and shallots 	<ul style="list-style-type: none"> * specific season/location for different biennial vegetables identified * at least 20-30 kg breeders for all target crops and prebasic seed of improved varieties of tomatoes, shallots and pepper (30-50 kg) and onions (100-120 kg) available every year * formal and informal seed supply and distribution systems initiated to increase seed availability for growers with farmers and ESI * seed quality test procedures (G%, purity analysis etc) will be established * HLI, research centers, farmers, and private sectors have easy access to seeds of promising target vegetable varieties * capacity of research in facilities and experience built at Melkassa and Debre Zeit research centers produces trained and training materials (one manual for all target crops and 1 leaflet for each target crops available)
61	Improving productivity of pepper in SNNPR state of Ethiopia through improved crop management	Horticulture	Feb, 2010	Sep, 2010	Melkasa	Lidet Sitotaw	Ongoing	SOS Sahel Ethiopia	Birr 203,499.72	<ul style="list-style-type: none"> * improve the seed system to provide enough seeds to the farmers * introduce and demonstrate improved insect and pest management practices * introducing and demonstrate improved agronomic and post harvest handling 	<ul style="list-style-type: none"> * disease and insect pest problems prioritized according to their importance * at least one variety gets popularity among participant farmers

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62	Evaluating markets of banana and its products for Ethiopia	Horticulture	16/10/2009	Jan, 2011	Melkassa	Mohamed	Ongoing	ASARECA	USD 7,656.25	* enhance value addition and competitiveness of banana in Sudan * identification of the major actors in the banana markets, communication of results to stakeholders for capacity building purposes	* analyzed and characterized banana markets for Ethiopia * at least 2 major marketing opportunities for banana and banana products within and outside the country
63	Adaptation experiments of different vegetable varieties for local registration	Horticulture	Feb, 2010	June, 2010	Melkassa	Shimeles Akliilu and Selamawit Ketema	Ongoing	MAKOBU Entreprise	Birr 99,976.80	* Tomato (3 varieties), onion (1), cabbage (2 varieties), * To generate 3 tomato, 1 onion, and 2 cabbage varieties	At least one variety recommended
64	Adaptation experiments of different vegetable varieties for local registration	Horticulture	Dec, 2010	May, 2010	Melkassa	Shimeles Akliilu and Selamawit Ketema	Ongoing	Axum Greenline	Birr 68,647.95	* 2 tomato varieties, one onion, three hot pepper, one cabbage, one lettuce * To generate 2 tomato, 1 onion, 3 hot pepper, 1 cabbage and 1 lettuce varieties	At least one variety recommended
65	Adaptation experiments of different vegetable varieties for local registration	Horticulture	Jan,2010	June, 2010	Melkassa	Shimeles Akliilu and Selamawit Ketema	Ongoing	AJMU Import Export	Birr 82,587.75	* assess and verify yield and quality performance, adaptability and acceptability of hybrid cabbage (3) and carrot (3) cultivars * address the urgent need of the market and agro-industries	At least one variety recommended
66	Introduction of commercial onion variety for verification	Horticulture	Jan,2010	June, 2010	Melkassa	Shimeles Akliilu and Selamawit Ketema	Ongoing	RAS Service PLC	Birr 20,600.00	evaluate onion variety (1)	Registration of the variety
67	Adaptation trials on Dutch Potato varieties	Horticulture	Jan, 2010	Aug, 2011	Holletta, Adet, Kulumsa	Shimeles Akliilu and Selamawit Ketema	Ongoing	SOLA GROW PLC	Birr 36,500.00	evaluate adaptability of Dutch potato varieties	Registration of at least one variety
68	Introduction of commercial pumpkin varieties for production	Horticulture	Nov, 2009	June, 2010	Melkassa	Shimeles Akliilu and Selamawit Ketema	Ongoing	Ethio-African PLC	Birr 9,240.00	evaluate pumpkin varieties (3)	Registration of at least one variety
69	Introduction of commercial pepper and tomato varieties for verification	Horticulture	Oct, 2009	June, 2010	Melkassa	Shimeles Akliilu and Selamawit Ketema	Ongoing	ERA AGRI-LINK	Birr 31,350.00	test the adaptability of Pepper (2) and tomato (3) varieties	Registration of at least one variety
70	Introduction of commercial varieties of bell pepper, asparagus and artichoke for adaptation study in Ethiopia	Horticulture	Jan, 2009	Jan, 2011	Melkassa	Mohammed Yesuf	New	ENAIIP	Birr 139,975.00	test the adaptability of artichoke, bell papper and asparagus varieties under Ethiopian condition	Adapted variety of artichoke, bell pepper and asparagus registered

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71	Wealth creation through integrated development of the potato production marketing sector in Ethiopia	Horticulture	Jun, 2008	May, 2013	Holetta	Gebremedhin w/Giorgis	Ongoing	CIP	USD 146,067.00	* affordable seed potatoes * enable smallholders to manage seed potato quality * establish stakeholders interaction and commodity chain linkages * enable national potato sector development and sharing of project lessons	Technologies developed to increase the efficiency of market for farmers
72	Applying tissue culture to improve access to cassava and sweet potato clean planting materials for farmers in eastern Africa	Horticulture	Apr, 2010	Dec. 2011	Jimma	Wondifraw Teffera	New	ASARECA	USD 21,277.79	enhance sustainable productivity, value add to and enable competitiveness of cassava and sweet potato in ECA region	* appropriate cassava and sweet potato tissue culture technologies available for multiplication * capacity for cassava and sweet potato tissue culture in the NARS strengthened * information on cassava and sweet potato tissue culture available to stakeholders
73	Conservation for sustainable availability of cassava and sweet potato germplasm through biotechnology applications	Horticulture	Feb, 2010	Dec, 2011	SARI	Engida Tsegaye	New	ASARECA	USD 28,000	* establish collections of cultivated cassava and sweet potato germplasm * characterize and document cassava and sweet potato germplasm * establish/refurbish and equip laboratories for cassava and sweet potato conservation * train technicians and scientists in cassava and sweet potato conservation specialized skills	* appropriate cassava and sweet potato conservation technologies generated and made available to breeders * information exchange and utilization of cassava and sweet potato germplasm conservation enhanced
74	Pesticide research committee	CPBT	29/6/1995	Continues	Holetta, Ambo, Jimma	Melaku Alemu	Ongoing	Different companies	Birr 545,187.51	test different pesticide chemicals	different environment friendly pesticides registered
75	Abating Parthenium (<i>Parthenium hysterophorus</i> L.) damages in eastern Africa using integrated cultural and biological control measures	CPBT	Oct, 2009	Sep, 2014	Holetta	Kassahun Zewdie	Ongoing	Virginia State University	USD 133,288.05	* collect accurate information on the distribution & spread of Parthenium in eastern Africa * evaluate and demonstrate best management practices for the control of Parthenium	* implementation and evaluation plan developed * biocontrol agents introduced and released in Parthenium infested areas * information disseminated to farmers
76	Research and development plan for the implementation of IPM in the Ethiopian rose farms	CPBT	May, 2007	May, 2012	Ambo	Mohammed Yusuf	Ongoing	Ethio-Neherlands Horticulture partnership	Birr 119,922.00	* develop IPM technology for rose growers under Ethiopian agro-ecological conditions * build and exchange IPM knowledge among public and private partners	introduction of IPM technology will improve the quality and quantity of rose production, therewith enabling a competitive advantage in international supply chains

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77	Development of natural product-based biopesticides for control of pests in Ethiopia	CPBT	Jan, 2009	Dec. 2011	Melkassa	Daniel Bisrat	Ongoing	Different companies	Birr 400,000.00	develop bioinsecticides against vegetable leaf-minors, capsicum aphids and ABW - plant derived formulated products based on secondary metabolites from bitter melon leaves with feeding and oviposition deterrent in controlling leafminer and essential oil extracts against aphids and ABW; extract bitter melon leaves with ethanol; isolate and characterization of active ingredients; distill essential oils from Chenopodium ambrosioides and bishop weed; conduct product formulation and development; secondary invitro and in vivo bioassays including extensive field trials: Sp2 formulation of bioacaricides from Boswellia commiphora against cattle ticks; isolate and characterize active ingredients from B. spp.; formulate and develop natural product-based bioacaricides from B. extract; evaluate product in vitro and in vivo: Sp3 formulation of biofungicides from essential oils and medicinal plantserization of active ingredients from B. spp.; Extract medicinal plants with 70% ethanol (artemisia, black pepper, liverworts), distill essential oils(20) with known bioactivities, etc.	* bio-insecticides against leaf minors, capsicum aphids, ABW developed, formulated * bio-acaricides formulated against cattle ticks from Boswellia commiphora * bio-fungicides against lateblight, powdery mildew of tomato and smuts of wheat formulated against fusarium and Aspergillus spp. as post harvest tested
78	Adaptation trial: Nirmal Seed Private Limited	POF/Cereals	Apr, 2011	Dec, 2011	Werer/Pawe/ DZ/Bako/Adet	Redwan/Mul ugeta / Setegn/Taye /Sewagegn/ Mosisa	New	Nirmal Seed PLC	USD 30,600.00	* identify high yielding, early and medium maturing, disease and pest resistant pulse, oils and fibers and cereals varieties suitable for small scale and commercial cultivation	* one or more hybrids from each crop from the trials conducted will be registered and released for commercial cultivation in Ethiopia
79	Seed Innovations Private Limited SIPL/ Adaptation Trials/Vibha Agrotech Limited/Adaptation Trials	Horticulture/ Cereals	March, 2011	May, 2012	Melkassa/ Kulumsa/ Werer/ Holetta/ Bako/ Adet	Mohammed/ Taye Taddese/ Fridisa/ Daniel/Endalew/ Bulcha/ Mosisa/ Setegn	New	Vibha Agrotech Limited	USD 54,490.00	* identify high yielding; pest, disease & abiotic stress tolerant hybrids adaptable to Ethiopian agro-climatic conditions which are suitable for large scale cultivation by farmers; * identify high yielding; pest, disease & a biotic stress tolerant hybrids adaptable to Ethiopian agro-climatic conditions which are suitable for large scale cultivation by farmers	* one or more hybrids from each crop from the trials conducted will be registered and released for commercial cultivation in Ethiopia
80	Quality seed promotion project for smallholder farmers	Crop	May, 2010	May, 2011	Debre Zeit	Dawit Alemu	Ongoing	JICA	NA	* promote quality seed on wheat and tef	* scaling out of quality wheat and tef seed production in Debre Zeit, Dendi, Moji, SodoYilmana Dens

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81	Biotechnology innovation system study	Crop, all	Apr, 2010	June, 2010	EIAR HQ	Woldeyesus Sinebo	Ongoing	Ministry of Science and Technology	Birr 126,302.00	<ul style="list-style-type: none"> * establish the status of biotechnology and innovations thereof in the country * describe the characteristics of the pathways for biotechnology product development, dissemination and diffusion * identify constraints and opportunities along the biotechnology product development pathways in the context of the national system of innovation * develop recommendations for policy actions 	<ul style="list-style-type: none"> * an inception report detailing the method of analysis and instruments to be used for data collection and analysis * a draft report to be submitted within ten weeks from the data of signing the contract * a final report within twelve weeks from the data of signing the contract
82	Linking tailored seasonal climate outlook and weather information into food security through crops monitoring and yield estimation under rainfed agriculture	Crop- all	Jan. 2009	Dec, 2011	EIAR HQ	Girma Mamo	New	RCBP	Birr 190,000.00	<ul style="list-style-type: none"> * categorize the study area into homogenous rainfall and farming zones for beg and meher seasons using the principal component analyses * conduct survey on the extent of vulnerability of the rural households working in each of the specified zones to climate variability and food insecurity * develop a one month lead rainfall prediction models using SSTs, SOI and evaluate/verify the skillfulness of the prediction models outputs against the observation * improve LEAP software with the inclusion of the pre-season, seasonal outlook and short term weather forecasting to improve methods of the current tenuous crop assessment procedures in Ethiopia (crop acreage and actual yield and loss estimate) * strengthen network of stations and climate database (observed and satellite images) for effective networking; * identify critical knowledge gap that impedes effective soil-crop-climate risk solutions and synthesize assessment activities that would generate new understanding to fill the gap 	<ul style="list-style-type: none"> * homogenous rainfall and farming zones in the study area (for beg and Meher) * livelihood vulnerability maps (social, economic and environmental) * one month lead rainfall prediction model (DST) * improved version of LEAP * improved methods of crops acreage and yield estimate * improved network of stations and satellite imagery * improved institutional and technical capacity of individuals, proceedings and extension leaflets, journal articles
								Task Order No. 1	USD 44,397.82	support rust screening activities in East Africa-Ambo	
								2	USD 104,706.74	support rust screening activities in East Africa-Ambo	
								3	USD 17,785.9	support rust screening activities in East Africa-Ambo	
								4	USD 64,163.38	support rust screening activities in East Africa-Ambo	
								5	0.000	support rust screening activities in East Africa-Ambo	
								6	USD 60,000	support rust screening activities in East Africa-Kulumsa (Irrigation facility)	

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83	Durable Rust Resistance in Wheat /DRRW/Cornell University	Cereals	Feb, 2008	Jan.31, 2011	Kulumsa	Bedada Girma	Ongoing	7	USD 25,899.65	support rust screening activities in East Africa-Ambo	* laboratory and greenhouse facilities upgraded (Debre Zeit and Ambo) * field and irrigation facilities upgraded at Kulumsa * threat to wheat production from stem rust overcome * internet network installed * durable rust resistant wheat tetraploids identified
								8	USD 74,234.6	support rust screening activities in East Africa-Ambo	
								9	USD 15,713.57	support rust screening activities in East Africa - Ambo	
								10	USD 63,758.43	support rust screening activities in East Africa - Ambo	
								11	USD 66,700.00	support rust screening activities in East Africa - Ambo	
								12	USD 32,000.00	support rust screening activities in East Africa - Ambo	
								13	USD 32,000.00	support rust screening activities in East Africa - Ambo	
								14	USD 87,624.00	support rust screening activities in East Africa - Ambo	
								15	USD 87,624.00	support rust screening activities in East Africa - Debre Zeit	
								16	USD 26,672.00	support rust screening activities in East Africa - Kulumsa	
								17	USD 27,823.00	support rust screening activities in East Africa - Kulumsa	
								18	USD 22,560.71	support rust screening activities in East Africa - Ambo (Travel, Supplies)	
								19	USD 64,255.18	support rust screening activities in East Africa - Debre Zeit (Travel, Supplies)	
								20	USD 13,420.39	support rust screening activities in East Africa - Kulumsa	
								21	USD 55,082.85	support rust screening activities in East Africa - EIAR HQ (Travel, Supplies)	
								22	USD 33,350.00	discover new sources of rust resistance in wild wheat and wild barley	
								23	USD 7,761.35	support rust screening activities in East Africa- Kulumsa(Special Seed Initiatives)	
								24	USD 5,010.55	support rust screening activities in East Africa-Debre Zeit (Special Seed Initiatives)	
								25	USD 25,180.40	support rust screening activities in East Africa-Werer (Special Seed Initiatives)	
								26	USD 97,600.17	support rust screening activities in East Africa-Debre Zeit (Special Seed Initiatives: Irrigation Investment)	
								27	USD 46,502.09	support rust screening activities in East Africa - Kulumsa (Special Seed Initiatives: Irrigation Investment)	
								28	USD 45,701.74	support rust screening activities in East Africa - Werer (Special Seed Initiatives: Irrigation Investment)	

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84	Testing and validation of breed survey methodology, socioeconomic survey and characterization of selected indigenous cattle of ECA	Ruminant	Aug, 2009	Dec, 2011	Adami Tulu	Tesfaye Alemu	Ongoing	ASARECA	USD 28,084.00	<ul style="list-style-type: none"> * generate and facilitate demand driven cattle breeding technologies and innovations for cattle keepers * facilitate the formulation of policy options for enhancing the performance of the cattle sub-sector * strengthen capacity for implementing sustainable cattle improvement program * enhance the availability of information on indigenous cattle breeds through networking and partnerships 	<ul style="list-style-type: none"> * demand driven cattle breeding technologies and innovations generated for uptake by 2010 * appropriate policies for enhancing the performance of the cattle sector recommended for implementation by 2010 * capacity for implementing cattle improvement and sustainable utilization programmes by farmers, service providers and research scientists strengthened * breed catalogue and other documentation produced for at least one cattle breed per country
85	Feeding value of flour from <i>Prosopis juliflora</i> pods in poultry, dairy and fattening rations	Livestock, all	2009	2012	Holetta	Getnet Assefa	New	RCBP	Birr 400,000.00	<ul style="list-style-type: none"> * determine nutrient composition of <i>P. juliflora</i> pods * determine feeding value of <i>P. juliflora</i> pod flour and identify optimum level of inclusion in poultry diet (layers & broilers), inclusion in ruminant diet (dairy, beef and sheep) * determine the product quality (milk, meat and egg) of livestock based on <i>P. juliflora</i> 	<ul style="list-style-type: none"> * nutrient composition of <i>P. juliflora</i> pods under Ethiopian condition determined and documented * the feeding value of <i>P. juliflora</i> pod flour determined and optimum level of inclusion in Afar male sheep diets identified * the quality of livestock products (milk, meat and egg) produced on <i>P. juliflora</i> based diet determined and documented
86	Exploiting market opportunities for value added dairy and meat products in ECA Region	Ruminant	2009	2011	Debre Zeit	Addisu Abera	Ongoing	ASARECA	USD 96,134.00	<ul style="list-style-type: none"> * facilitate the generation and uptake of demand driven dairy and meat value chain technologies and innovations; promote enabling policies for enhancing value addition in the dairy and meat sub-sectors * strengthen capacity of smallholders and SMEs to exploit dairy and meat markets in the ECA subregion and disseminate information on appropriate practices, policy options and other innovations for value addition in the meat and dairy sub-sectors 	<ul style="list-style-type: none"> * demand and priorities for value addition, quality and safety by various dairy and meat value actors articulated * a number of demand driven dairy and meat value and quality enhancing technologies/ innovations identified and promoted * information on appropriate practices, policy options and capacity building process and outcomes documented and disseminated
87	Ethiopian sheep and goat productivity improvement program	Ruminant	Oct.25, 2007	Sep, 2010	Werer	Ashebir Kifle	Ongoing	USAID	Birr 102,000.00	<ul style="list-style-type: none"> * improve small ruminant production and marketing practices in Ethiopia * conserve and evaluate performance of indigenous genotypes of small ruminants in most appropriate environments * enhance communication capacity of small ruminant research, teaching and technology transfer facilities 	<ul style="list-style-type: none"> ways to more effectively engage and support stakeholders (from farmers to policy-makers to scientists) in the research and development process and in the strengthening of their capacities to change their actions designed and tested

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88	Strengthening regional germplasm collection and forage seed production in eastern and central Africa	Ruminant	Dec.15, 2009	June, 2011	Holetta	Fekede Feyisa	New	ASARECA	USD 33,208.00	<ul style="list-style-type: none"> * increase forage seed and feed resources availability to improve livestock productivity in various ecological zones of ECA * strengthen regional capacity and linkages for IAR 4D in germplasm management and forage seed production 	<ul style="list-style-type: none"> * forage seed and feed resources availability to improve livestock productivity in various eco regional zones of ECA increased * regional capacity and linkage for IAR 4D in germplasm management forage seed strengthened
89	Value addition in the dairy chain: identification and improvement of post harvest determinant factors on milk quality and marketing in the central Ethiopian highlands	Ruminant	Oct, 2010	Oct, 2011	Holetta	Zelalem Yilma/Firew Kassa	Ongoing	Institute for Development Research, AIRES-SUD	Euro 45,000.00	<ul style="list-style-type: none"> * improve the income of dairy producers through value addition during production, processing and handling of marketable milk products in Ethiopia * assess the hygienic condition during production, processing and marketing of milk and milk products by small holder dairy producers in the highlands of Ethiopia * identify marketing constraints and propose strategies for improvement interventions * determine microbial properties of smallholder milk and milk products * establish a HACCP system in the smallholder dairy chain in the central Ethiopia 	<ul style="list-style-type: none"> * the hygienic condition of milk and milk products during production, processing and marketing by smallholder dairy producers in the highlands of Ethiopia assessed * marketing constraints of milk and milk products identified and strategies for improvement interventions proposed * microbial properties of smallholder milk and milk products determined * input suppliers, producers, collectors, traders and other actors in milk value chain trained on safe and hygienic production, handling and marketing of dairy products * HACCP system will be established in the smallholder dairy chain in the central Ethiopia
90	Designing community-based breeding strategies for indigenous sheep breeds of smallholders in Ethiopia	Ruminant	Jan, 2008	June, 2011	Werer	Ashebir Kifle	Ongoing	BOKU/ICAR DA/ILRI	Euro 58,650.00	<ul style="list-style-type: none"> * characterize the production system * define breeding goals * establish methodological framework for the development of community-based breeding programs for smallholder producers, including institutional arrangements * undertake impact assessment of the breeding system at various levels 	<ul style="list-style-type: none"> * breeding goals defined in a participatory manner by farmers and at least one breeding program established per breed * a methodological framework for the development of community-based breeding programs for smallholder producers, including institutional arrangements * impact assessment of the breeding system at individual, flock, community and national level * assessment, on a national basis, of the characteristics of the breeds managed by the breeding programs * better understanding of the constraints to market access by sheep keepers

No.	Project title	Case team	Starting date	Completion date	Responsible Center	Responsible person	Status	Financer	Grant amount	Objectives	Output
91	Integrating BOMOSA cage fish farming system in reservoirs, ponds and temporary water bodies in eastern Africa	Fishery and Aquaculture	Oct, 2006	Sep, 2011	Sebeta	Zenebe Tadesse	Ongoing	EU	Euro 100,790.00	<ul style="list-style-type: none"> * apply a participatory approach to determine economic viability and social acceptability of the BOMOSA plots at community level * develop and validate method using remote sensing to assess and characterize water bodies for use as potential BOMOSA plots * set up fourteen BOMOSA plots and optimize the technology in small water bodies in Kenya Ethiopia and Uganda * evaluate locally available, agricultural by products and cost effective processing technology as a resource for sustainable production of low-protein fish feed * determine requirements and make recommendations for a legal and regulatory framework based on potential veterinary, public health and environmental impacts of BOMOSA * develop capacity building and dissemination materials for the local community, relevant authorities and policy makers and the international scientific community * develop a socioeconomic model for sustainable introduction and widespread uptake of the BOMOSA scheme in eastern Africa 	<ul style="list-style-type: none"> * BOMOSA cage plots introduced and established in 14 plots in different eco-zones of Kenya, Ethiopia and Uganda * a manual on methods of remote sensing to characterize small water bodies developed * cost effective low protein feed (Sebeta 1) from locally available cheap agro-industrial by products formulated * cost effective low protein feed (Sebeta 1) from locally available cheap agro-industrial by products formulated * legal and regulatory framework of the three countries evaluated and intervention measures for up scaling of the technology recommended * centers capacity in terms of training staff (2MSc + 2PhD) and purchasing field and laboratory equipment (established mini-nutrition laboratory at NFALRC) developed * several scientific publications on veterinary, health and environmental effects of the BOMOSA cage on the environment prepared * a manual on aquaculture methods in Amharic to be used by development agents and fishers developed * a socioeconomic model for up scaling the BOMOSA technology developed
92	Scaling-up of soil and water management technologies and drought tolerant varieties for increased maize productivity in East and central Africa countries	Integrated Soil Fertility & Crop Productivity Improvement	Oct, 2009	Aug, 2011	Melkassa	Habtamu Admasu	Ongoing	ASARECA	USD 30,135.00	<ul style="list-style-type: none"> * enhance sustainable productivity, value addition and competitiveness of maize in ECA countries * identify and document proven soil-water management technologies for production of drought tolerant maize varieties, and make them available to uptake pathways * strengthen capacity of farmers, extension workers and partners to enhance uptake and utilization of improved soil and water management technologies and drought tolerant maize varieties * promote identified priority soil-water management technologies and drought tolerant maize varieties * enhance availability of knowledge and information on soil-water management technologies and drought tolerant maize varieties to uptake pathways 	<ul style="list-style-type: none"> * the uptake of proven soil and water management technologies facilitated with drought tolerant maize varieties in drought prone areas of Tanzania, Kenya and Ethiopia * strengthened capacity for enhancement of promotion and utilization of soil and water management technologies with drought tolerant maize varieties in the region * availability of knowledge and information on soil and water management technologies with drought tolerant maize varieties to uptake pathways in the region enhanced

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93	Soil and water project of sorghum, millet and other grains collaborative research support program (INTSORMIL)	Integrated Soil Fertility & Crop Productivity Improvement	Jan, 2004	Sep, 2011	Melkasa	Tewodros Mesfin	Ongoing	University of Nebraska	USD 8,200.00	* generate and popularize improved soil and water management technologies that avoid low production and productivity of sorghum caused by low rainfall and low soil fertility	* suitable planting method of sorghum and maize that mitigate the problem of water scarcity which occasionally occur starting from flowering stage will be known * alternative soil, water and crop management techniques that enable to resist damages brought about by climate change will be identified
94	Evaluation and scaling-up of new chemical and biological commercial products for improving and sustaining crop yields in selected agro-ecological zones in Sub-Saharan Africa	Integrated Soil Fertility & Crop Productivity Improvement	Dec, 2009	Dec, 2011	Holeta	Amanuel Asrat	Ongoing	International Center for Tropical Agriculture (CIAT) - TSBF	USD 96,000.00	* assess the effectiveness of several commercial agricultural products and seed technologies developed by private companies to optimize and sustain crop yields in diverse agro-ecological zones in SSA * unravel underlying mechanisms and investigate the level of interactions between the effects of the application of the two most effective products screened under controlled conditions * scale up effective products under field conditions integrated within ISFM components (fertilizer application, soil organic matter, microbial ecology, adjusted cropping practices and crop varieties)	* baseline information and site selection * screening new products and technological options * understanding mechanisms and contributions * availability of effective products * project management, capacity building, monitoring and evaluation
95	Efficient use of crop residues: animal feed versus conservation agriculture project	Integrated Soil Fertility & Crop Productivity Improvement	Aug, 2009	Dec, 2011	Holeta	Angaw T Siyoum	Ongoing	ASARECA	USD 83,950.00	* enhance sustainable productivity, value addition and competitiveness of the regional agricultural system * recommend and promote best options for the utilization of crop residues * strengthen institutional capacity building to promote utilization of best-bet options of crop residues * facilitate availability of information and uptake of best-bet options for utilization of crop residues	increased adoption of best-bet options of crop residue utilization in crop-livestock systems in ECA
96	Efficient nutrient supply in East Africa	Integrated Soil Fertility & Crop Productivity Improvement	Mar, 2010	Apr, 2012	Holeta	Getachew Agegnehu	Ongoing	The Netherlands Government	Euro 90,000.00	* improve the livelihood of the farming community through the dissemination of appropriate integrated soil fertility management technologies that help boost crop production and productivity, thereby increasing its contribution to food security * improve the quality and quantity of local and export commodity markets while sustaining the natural resource base	* promising soil and water management practices conducted in Ethiopia reviewed, documented and made available to end users * proven ISFM technologies for maize, wheat and tef based cropping systems adapted, demonstrated and scaled up * soil test based crop response to fertilizer studied and nutrient balance in maize, wheat and tef based cropping systems quantified * the capacity of farmers, researchers and extensionists in ISFM improved and strengthened * information on ISFM provided to policy makers based on economic and biological evaluations of ISFM practices

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97	Participatory development and testing of strategies to reduce climate vulnerability of poor farm households in East Africa through innovations in potato and sweet potato technologies and enabling policies	Integrated Soil Fertility & Crop Productivity Improvement	Sep, 2007	Aug, 2011	Melkassa	Abuhay Takele	Ongoing	GTZ/BMZ	USD 150,000.00	<ul style="list-style-type: none"> * reduce climate vulnerability of poor farm households in East Africa through adoption of potato and sweet potato based technologies and enabling policies that increase the resilience and sustainability of agricultural systems * regionally-specific technology and policy strategies to reduce vulnerability of poor farm households to climate change * enhance national and international capacity to utilize new research methods for analyzing impacts of technologies and policies affecting farmers' adaptation to climate change * identify policy impact pathways and assess actual and expected policy changes 	<ul style="list-style-type: none"> * technical, institutional and policy innovations needed to facilitate adaptation of the poor and vulnerable to climate change developed and tested * assessment of impacts stemming from the interactions among potential adaptation and mitigation options, development and poverty reduction, and global environmental goods and feedback of the results into the development of innovations * design and testing of ways to more effectively engage and support stakeholders (from farmers to policy-makers to scientists) in the research and development process and in the strengthening of their capacities to change their actions and agendas to better react to climate change.
98	Evaluation of Timac for its suitability as fertilizer for different crops (maize) and soil types in Ethiopia	Integrated Soil Fertility & Crop Productivity Improvement	Mar, 2010	Mar, 2011	Holetta	Getachew Alemu/ Tesfa Bogale	Ongoing	Timac-Agro Italia	USD 7,500.00	test Timac as a fertilizer on maize	Timac recommended or rejected as fertilizer
99	Evaluation of biofertilizers for their productivity improvement on major crops	Integrated Soil Fertility & Crop Productivity Improvement	July, 2010	Dec, 2011	Holetta	Daniel Mulleta	Ongoing	Pannacea International Agro Industry PLC	USD 21,000.00	evaluate the productivity improvement of 10 biofertilizers on three major crops (Maize, wheat and tef)	bio-fertilizers recommended for major crops
100	Evaluation of nutrimix, fertilon, solugran, and basacote on different crops	Integrated Soil Fertility & Crop Productivity Improvement	July, 2009	2010	Jimma, Holetta, Kulumsa, Melkassa	Tesfa Bogale	Ongoing	Qoricha Plants & Health Requirements Export-Import PLC	Birr 84,000.00	<ul style="list-style-type: none"> * test the safety and effectiveness of different COMPO fertilizer products on major crops grown in Ethiopia * determine economic feasibility of the new fertilizers products from COMPO as compared to recommended NP fertilizer application 	fertilizers recommended for maize, wheat, potato, tomato and coffee
101	Evaluation of SKAF and Bnbat fertilizers on different crops	Integrated Soil Fertility & Crop Productivity Improvement	Oct, 2008	July, 2010	Holetta	Getachew Agegnehu, Tesfa Bogale, Birhan Abdulkadir, Assefa	Completed	Ambassel Trading House Pvt. Ltd. Co.	Birr 28,000.00	<ul style="list-style-type: none"> * test the effectiveness of SKAF and Bnbat fertilizers on productivity of different crops * estimate its economic advantage compared to other fertilizer sources * compare its effectiveness with recommended N/P fertilizer and integrated nutrient source 	* products for wheat and maize recommended
102	Evaluation of China-NPK compound fertilizers for wheat and tomato production under field and greenhouse conditions	Integrated Soil Fertility & Crop Productivity Improvement	Sep, 2010	Apr, 2011	Debre Zeit & Melkasa	Wakene Negassa, Yifru Abera and Dejene Abera	Ongoing	Aschalew Belay Habtegiorgis	Birr 48,000.00	* evaluate the effects of China-NPK fertilizers on wheat & tomato yield and yield components under field and greenhouse conditions on different soil types and to evaluate the economic feasibility of using China-NPK fertilizers as compared to urea and DAP	* economically feasible and environmentally sound chemical fertilizer produced

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103	Managing risk, reducing vulnerability and enhancing agricultural productivity under changing climate in the greater Horn of Africa	Irrigation, Drainage & Water Harvesting	May, 2007	Dec, 2011	Melkasa	Habtamu Admasu	Ongoing	IDRC-CCAA	USD 144,990.00	* generate and adapt technologies for moisture stress zones and to disseminate these technologies to end-users	* technologies for moisture stress climatic areas identified and disseminated
104	Integrated management of water for productivity and livelihood security under variable and changing climatic conditions in ECA	Irrigation, Drainage & Water Harvesting	Apr, 2011	Dec, 2013	Melkasa	Habtamu Admasu	New	ASARECA	USD 242,245.00	* Improve water productivity and sustainability in smallholder crop and livestock systems under variable climatic conditions	*Gender responsive integrated water management options to improve water productivity and to cope with impacts of climate variability and change promoted. *Capacity of stakeholders to develop and implement integrated water management options at farm and watershed scales enhanced. *IWM policy options and institutional arrangements to minimize smallholder farmer's vulnerability to climate uncertainties piloted. *Learning alliances and knowledge exchange systems for scaling up technologies and sharing information on improved water management strengthened.
105	Going to scale: enhancing the adaptive management capacities of rural communities for sustainable land management in the highlands of eastern Africa	Integrated Watershed Mgmt	February, 2009	Feb, 2013	Holetta	Bezaye Gorfu	Ongoing	International Development Research Center (IDRC)	CAD 195,600.00	scale up integrated natural resources management innovations for sustainable agricultural productivity and food security in the highlands of east Africa	*appropriate strategies to accelerate uptake of pilot tested integrated natural resources management innovations identified and promoted, and an evidence-based framework for their effective scaling up provided * develop partnership mechanisms for linking grassroots planning with district level decision making and policy implementation for landscape level adoption and impact of integrated natural resources management innovations * provide insights for evidence based policy options that address key barriers and opportunities for wide scale adoption of integrated natural resources innovations in selected districts * develop, implement and evaluate systematic strategy for devolution of structures and action research responsibilities to national partners in selected countries * promote and adapt interactive knowledge management and communication systems needed for scaling out and up sustainable land management innovations

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106	Making the best of climate – adapting agriculture to climate variability	Integrated Watershed Mgmt	Jan, 2009	December, 2011	Melkassa	Habtamu Admassu	Ongoing	ASARECA	USD 76,003.00	<p>* in general, to contribute to ASARECA goal of “Enhanced sustainable productivity, value added and competitiveness of the sub- regional agricultural system”</p> <p>specifically, to:</p> <ul style="list-style-type: none"> * quantify and map vulnerability of agricultural systems to impacts of climate variability * develop and test prototype climate information products to support adaptive decision making by relevant stakeholders * enhance capacity of target stakeholders for applying climate information in agricultural decision making * enhance availability and use of information on climate risk management 	<ul style="list-style-type: none"> * enhanced understanding about the impacts of climate variability on the agricultural systems in semi-arid tropics * farm-level response options that will reduce the impacts of climate variability and enhance productivity developed and promoted * farm level risk management Improved through provision of climate information products that support strategic, tactical and operational decision making by farmers * capacity of farmers and their support agents built to develop and apply locally relevant climate information products that assist in making the best use of existing climate while creating awareness and preparing for the possible impacts of climate change * formal and lasting institutional linkages promoted within and across counties that facilitate the dissemination and utilization of the knowledge base and experiences
107	Climate, land use change	Natural forest	Oct, 2006	Oct, 2009	FRC	Zewdu Eshetu	Ongoing	United States National Science Foundation (USNSF)	USD 30,135.00	<ul style="list-style-type: none"> * understand and determine the extent to which previous land management and environmental changes influence the development activities and the livelihood of the Ethiopia community * determine the relationship between past land use and forest growth for calibrating past climate * make use of tree ring to develop management tools that indicate land productivity 	<ul style="list-style-type: none"> * provision of long term reconstruction of climate and land use change * past climate reconstructions from land use change & climate calibration from tree ring analyses of drought and famine in Ethiopia * determining the relationship between drought and tree ring growth would help understanding the profound impacts of climate extremes on human history, and provide early warning to save human life * determining the relationships between human land use change and climate would contribute to government's policy and strategy in achieving food security and millennium development goal

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108	Estimating forest growth and forest carbon stock and reconstructing rainfall variability as an integrated approach for forest management planning	Natural forest	Jan, 2010	Dec, 2012	FRC	Zewdu Eshetu	New	RCBP	Birr 400,000.00	<ul style="list-style-type: none"> * establish a long series of climate anomalies from different proxies such as stalagmites and tree rings * determine rate of forest growth and estimate forest carbon stock for plantation and natural forests * estimate forest carbon cost in relation to wood value and management costs and develops forest carbon stock and cost estimation protocol * develop integrated forest management planning model based on forest carbon stock and forest volume growth * map spatial and temporal land use and land cover changes along elevation gradient/climatic gradient 	<ul style="list-style-type: none"> . Reconstructed climate anomalies will Provide sound scientific data on climate variability . The relationship between tree ring growth, stalagmite growth bands and instrumental climate records assist to characterize Ethiopian rainfall and ENSO variability on the decadal to century timescales . Forest volume growth, forest carbon stocking and forest carbon cost determination as a function of forest age will be developed . Data sets on carbon sequestration potentials, wood volume growth and carbon costs will assist modifying the existing forest management planning from volume based management to integrated carbon stock
109	Environmental and socioeconomic impacts of floriculture in Ethiopia	Plantation and agroforestry	Aug.17, 2009	Aug.17, 2012	Holetta	Mehari Alebachew	Ongoing	RCBP	Birr 400,000.00	<ul style="list-style-type: none"> * assess the environmental and socioeconomic impacts of floriculture farms in Ethiopia specifically, to: * quantify the concentration level of different pollutants (chemicals, pesticides, heavy metals) on the surrounding soil, surface and ground water * know and quantify the impact of floriculture farm expansion on the forest resource, bees, livestock and crop production * identify the health impact of pesticides used for protection of flowers from pests an employees and surrounding communities * quantify the socioeconomic impact of floriculture farms to the surrounding communities in particular and the country in general * identify the concentration of heavy metals on vegetables grown near floriculture farm and floriculture waste disposal sites * provide policy makers with scientific information on socioeconomic and environmental impact of floriculture * promote policy makers and agricultural planners to integrate environmental and social issues into economic benefits of the industry * encourage stakeholders to share concern and responsibility 	<ul style="list-style-type: none"> * investigate impacts of the flower farm activities in Ethiopia on concentrations of selected metals (As, Hg, Se, Be, Mo, Li, Zn, Cu, Cd, Cr, Co, Pb, Fe, Mn, Ni, B, F, Cl and Al) and some chemical (PH, EC, OC, texture, CEC and exchangeable bases) properties of soils investigated * the magnitude and direction of the relationships within and between the selected heavy metals and some soil chemical properties revealed * the concentrations of the selected heavy metals in vegetables, surface and ground water assessed * the impact of floriculture farms on soil microbial population and diversity assessed * the impact of floriculture farm expansion on the forest resource, bee and livestock evaluated * the effet and consequence of floriculture farm residues on human health evaluated * the socioeconomic impact of floriculture farms on the surrounding community and the country assessed * the implication of floriculture expansion on land use and food crop production evaluated

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110	Evaluation and promotion of 25 to 35 HP tractors for Ethiopian agriculture	Agri. Mechanization	Sep, 2009	Sep, 2012	Melkassa	Leake Kebede	Ongoing	RCBP	Birr 400,000.00	<ul style="list-style-type: none"> * make available appropriate mechanization technologies which will help increase agricultural production of the country on sustainable basis through improved seedbed preparation, crop production, processing, transportation, and marketing by using small horse power tractors and associated implements * identify appropriate size small horse power tractor with multi purpose attachments * know low power tractor investment cost and income * suggest category of farmers who should have this tractors create awareness in target areas for all stakeholders, and promote machines most suitable to farmer's condition * prepare extension materials (guidelines, posters) * identify appropriate method of extension for such mechanical power sources and farm implements * collect feedbacks from farmers of different socioeconomic background and other stakeholders 	<ul style="list-style-type: none"> * the field performance of low power (25 to 35 HP) tractors and select suitable ones for Ethiopian condition compared * economic and social acceptance of low power tractors evaluated * suitable mechanical power technology in the form of cooperatives and machinery pool system promoted * data for further studies generated