



Project “Reaching Agents of Change”

“Everything you ever wanted to know about Sweetpotato”



**Sokoine University of Agriculture
Morogoro, Tanzania**

19 to 30 November, 2012

Course Report

30 November, 2012

“Everything you ever wanted to know about Sweetpotato”

Course Report

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1. Introduction

The Reaching Agents of Change (RAC) project is a 3-year regional initiative aimed at increasing investments and commitment to the dissemination and use of Orange-Fleshed Sweetpotato (OFSP) as a means to combat Vitamin A Deficiency (VAD) and food insecurity in Africa. The project, which is coordinated from Nairobi, Kenya, is funded by Bill & Melinda Gates Foundation, and implemented by the International Potato Center (CIP) and Helen Keller International (HKI). The project targets the following countries: Mozambique, Nigeria, Tanzania, Ghana and Burkina Faso. The main objectives of RAC are to:

- 1) Generate new investments by governments, donors, and NGOs to scale up the adoption of OFSP in five target countries; and
- 2) Building the capacity of national implementing agencies to design and implement technically strong and cost-effective training interventions that drive up-scaling of OFSP.

One of the capacity building activities planned under RAC Project is to conduct an annual 10-day training course on “Everything you have ever wanted to know about sweetpotato”. This is a Training of Trainers (ToT) course targeting extension staff and other interested people working with the public and private sectors, NGOs, CBOs and farmer groups.

The Department of Agricultural Economics and Agribusiness (DAEA) is in the Faculty of Agriculture (FoA) of Sokoine University of Agriculture. The center aims at implementing practical skills, entrepreneurship, research and integration of basic and applied knowledge in the agriculture sector. Sokoine University of Agriculture is the only agricultural university and second oldest public university in Tanzania. It is renowned, as a world class agricultural university in the region. The Faculty of Agriculture has grown to become one of the largest in East, Central and Southern Africa. Sokoine University of Agriculture is proud to have initiated several programs that have been transformed to university-wide directorates and institutes. Hence Sokoine University of Agriculture’s involvement in the Training of Trainers Course on "Everything you have ever wanted to know about sweetpotato" will enable the staff and participants to further strengthen its capability to contribute responsibly to the needs of the national economy and transform the lives of rural households. It is hoped that Sokoine University of Agriculture’s partnership with RAC to build capacity of national implementing agencies in Eastern and Central Africa will bear fruit and yield technically strong and cost-effective training interventions that drive up-scaling and out scaling of OFSP in the region.

RAC and SUA signed an agreement to deliver the 10-day training course. SUA agreed to champion the RAC agenda in Tanzania during and after the project and is expected to take lead in organizing and conducting the RAC 10-day training course in the future. It is planned that in:

Year 1 of the project, RAC will lead the process of organizing and conducting the course. The national counterparts from SUA /DAEA will participate during the process and support the efforts of the RAC project.

Year 2, the national counterparts will take lead in organizing and conducting the training. RAC will backstop the national counterpart efforts.

Year 3, the national counterparts will organize and conduct the course on their own. The RAC project will only offer partial financial support. It is planned that after Year 3 of the project, the course will be run on a full-cost recovery basis.

This report is a deliverable established under the contract signed between RAC and DAEA/SUA and refers to the Year 1 course that took place from 19th to 30th November in Morogoro, Tanzania.

2. Implementation of the course

The project prepared and delivered the ten day training course as planned. During the preparation phase several planning meetings were held between Sokoine University of Agriculture/DAEA, and CIP, to clarify roles and responsibilities, and ensuring that all the materials necessary for the training were in place. OFSP fields were also prepared for practical work. Visits were made to the training venue to ensure that the conference room had enough space for the participants and that the facilities were adequate. Facilitators also visited the fields to inspect demonstration plots. It was realized that it was not possible to get enough roots in November 2012 for some practical activities during the course. Hence, OFSP roots were acquired from Zanzibar and Geita district through project collaborators.

2.1 Pre-training session

A 5 day pre-training session was held from 12th to 17th November 2012 in Morogoro. A total of 16 facilitators attended the pre-training (6 from SUA, 3 from SRI-Kibaha, 1 from HKI and 6 from CIP-RAC). During the pre-training facilitators were paired (national and CIP-RAC/HKI), assigned topics, and jointly developed session plans and rehearsed the course delivery process for their module. In addition, the facilitators were enlightened on the TOT delivery methodology, facilitation skills and adult learning methodologies among other topics. The pre-training also clarified grey areas in the manual before the actual training.

2.2 Participants

The 10 day Training of Trainers course was delivered from 19th to 30th November 2012 in Morogoro. The course was advertised in the local newspapers in Tanzania as well as through CIP and RAC networks. A total of 30 participants attended the course, 12 (40%) of which were women. Of these, 10 participants (3 from Kenya, 3 from Rwanda and 4 from Tanzania) were sponsored by ASARECA while RAC sponsored 20 participants from Tanzania. Participants came from different types of organizations (Table 1) and most were already involved in programs to promote orange-fleshed sweetpotato varieties among farmers in their countries. The list of participants is included in Appendix 1.

Table 1: Number of participants by type of organization

Type of organization	Number of participants	Sex M=male F=Female	% in relation to total number of participants
Private companies	2	1=M; 1=F	6.7
NGOs	6	4=M;2=F	20
Agricultural Training Institute	2	1=M;1=F	6.7
Local government and regional authorities	6	5=M;1=F	20
Agriculture Research institutions (ARIs)	9	2=M;7=F	30
Universities (agriculture and agri-business)	5	5=M	16.7
TOTAL	30	18=M;12=F	100%

2.3. Facilitators

The course was jointly delivered by CIP, HKI, SRI-Kibaha and Sokoine University of Agriculture (Table 2); with CIP leading the course delivery. A total of 19 facilitators were involved and 9 of these were from the national program (SRI-Kibaha and Sokoine University of Agriculture). Facilitators teamed up to deliver the various topics of the course modules. The combination of very experienced sweetpotato scientists from CIP, HKI and SRI-Kibaha, and very experienced lectures from SUA provided a very strong foundation for the planning and delivery of each module.

2.4. Venue

The course was held at Top Life hotel, Morogoro (2 Km from Sokoine University of Agriculture (SUA) where lecture hall, accommodation and meals were provided. All practical sessions were conducted at Sokoine University of Agriculture where orange fleshed sweetpotato fields were planted and cooking and other postharvest facilities were available. The university was in session during the period the ToT was conducted hence the choice of the nearest reasonably priced hotel to SUA.

Table 2. List of facilitators and areas of expertise

Name	Area of expertise	Institution
Kiddo Mtunda	Sweetpotato breeding	RAC & SRI-Kibaha
Robert Mwanga	Sweetpotato breeding	CIP Uganda
Agili Sammy	Sweetpotato production and dissemination systems	CIP Nairobi
Silver Tumwegamire	Sweetpotato Breeder	CIP Uganda
L. B. Mbilinyi	Plant Pathologist	SUA
Marton Muhanna	Sweetpotato Protection	SRI-Kibaha
Hilda Munyua	Communication & Training Specialist	CIP/RAC
Luka Wanjohi	IT Specialist	CIP Nairobi
Godfrey Mulongo	M&E Specialist	RAC
Kirimi Sindi	Impact Assessment Specialist	CIP Nairobi
Daniel W. Ndyetabula	Marketing & Entrepreneurship	SUA
Mariam Kilima	Sweetpotato Postharvest & Value Addition	SRI-Kibaha
Irene de Souza	Sweetpotato Postharvest & Value Addition	Polpa Alaranjada, Mozambique
Joyce Lymo-Macha	Gender Specialist	SUA
Margaret Benjamin	Nutritionist	HKI
Joseph Masimba	Marketing & Entrepreneurship	SUA
Anna A. Temu	Postharvest & Value Addition	SUA
Ernest Likoko	Postharvest Value Addition	SUA
Jonathan Mkumbira	Sweet potato production	RAC

2.5. Content of the course

The content of the course followed the Reaching Agents of Change ToT Training Manual (June 2012) “Everything you ever wanted to know about sweetpotato”. Unlike the similar course which was conducted in Mozambique, the ToT in Tanzania had two additional modules: 1) Sweetpotato Knowledge Portal and 2) Entrepreneurship. Thus the modules covered during the course included:

1. Importance of Sweetpotato
2. Sweetpotato Knowledge Portal
3. Sweetpotato Production and Management
4. Sweetpotato Varietal Selection and Characteristics
5. Sweetpotato Seed Systems
6. Pests and Disease Management
7. Harvesting and Post-harvest Practices
8. Orange Sweetpotato and Nutrition
9. Gender and Sweetpotato Production, Utilization and Marketing
10. Sweetpotato Marketing
11. Entrepreneurship
12. Monitoring of OFSP Dissemination and Uptake
13. Facilitation skills and Adult Training Techniques

The daily program of the course and facilitators involved in each module are

presented in Table 3. Based on the ToT Training Manual detailed daily session plans were prepared by the facilitators during the pre-training (Appendix 2).

Table 3. Program of the course and facilitators involved

DAY		MODULE/TOPIC	FACILITATORS
DAY 1	MONDAY 19th Nov	Opening Participants expectations and fears Course overview and learning objectives Benchmark assessment Overview of importance of sweetpotato OFSP and nutrition	Dean, Faculty of Agriculture Anna Temu Hilda Munyua Godfrey Mulongo Jonathan Mkumbira Kido Mtunda Margaret Benjamin
DAY 2	TUESDAY 20th Nov	Sweetpotato knowledge portal Sweetpotato varieties and their characteristics	Luka Wanjohi Hilda Munyua Robert Mwanga Kido Mtunda Jonathan Mkumbira
DAY 3	WEDNESDAY 21st Nov	Selecting, preserving and multiplying sweetpotato planting materials	Sammy Agili Silver Tumwegamire Kido Mtunda
DAY 4	THURSDAY 22nd Nov	Sweetpotato production and crop management	Sammy Agili Silver Tumwegamire Kido Mtunda
DAY 5	FRIDAY 23rd Nov	Sweetpotato pests and diseases and their management	Silver Tumwegamire Lani Benjamin Mbilinyi Marton Muhanna
DAY 6	MONDAY 26th Nov	Gender Entrepreneurship	Joyce Lyimo Macha Sindi Kirimi Joseph Masimba Daniel Ndyetabula
DAY 7	TUESDAY 27th Nov	Monitoring and evaluation Planning a dissemination program	Godfrey Mulongo Jonathan Mkumbira Kido Mtunda
DAY 8	WEDNESDAY 28th Nov	Marketing, value chains	Sindi Kirimi Joseph Masimba Daniel Ndyetabula Anna Temu
DAY 9	THURSDAY 29th Nov	Harvesting, processing and post-harvest management	Sindi Kirimi Irene de Souza Anna Temu Maryam Kilima
DAY 10	FRIDAY 30th Nov	Planning to train others on “Everything you need to know about sweetpotato” Action plans Participants post-course assessment Course evaluation Closing and presentation of certificates	Jonathan Mkumbira Godfrey Mulongo Anna Temu Kido Mtunda Adiel Mbabu
		Meeting of training facilitators to capture lessons learned	All facilitators

Participant action plans

On the last day of the course participants submitted “Action Plans” that they had developed outlining how they plan to apply the skills and knowledge they had acquired at this 10 day TOT. A consolidated table of these action plans is in **Appendix 6**.

2.6. Participants’ test results

Participants were given a test on the first day of the course (Pretest) to assess their knowledge about sweetpotato. The same test was conducted on the last day of the course (Posttest) to assess if their knowledge of sweetpotato had improved following attending the 10 day ToT on “Everything you ever wanted to know about sweetpotato”. A total of 28 participants wrote the test on the first day (two came later after the test had been administered). A total of 29 participants took the last test (one left early to attend to a sick relative).

The pretest results are presented in Tables 4a and 4b and Figures 1a and 1b. Almost half of the participants scored close to or above average which indicates that most of the participants had some knowledge of sweetpotato. In total, 11 (5 Females) participants scored above average. The pretest results show that female participants had better knowledge of sweetpotato than men (Table 4b). This is also reinforced by the fact that the best two participants on the pretest were females (Figure 1a). Thus, despite the fact that the participants were not fulltime sweetpotato farmers, the pretest results indicates that sweetpotato, which is mostly grown as a food crop, falls in the domain of women.

For the posttest, all participants, except one, scored higher marks (above 50%) (Figure 1b) compared to the pretest. The mean, maximum percentage scores were much higher than those for the pretest with a difference of 24 and 11 respectively (Table 4a). There was no change for the minimum percentage score due to one participant from Rwanda who had difficulties comprehending the course in English. Thus the results clearly show that the participants had improved their sweetpotato knowledge tremendously as a result of attending the 10 day ToT course on “Everything you ever wanted to know about sweetpotato”.

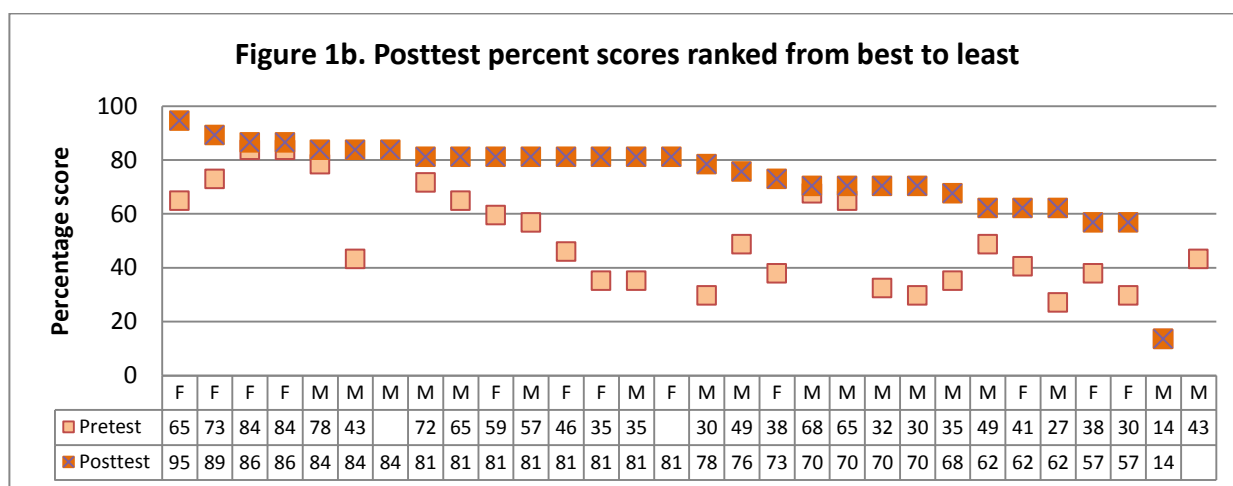
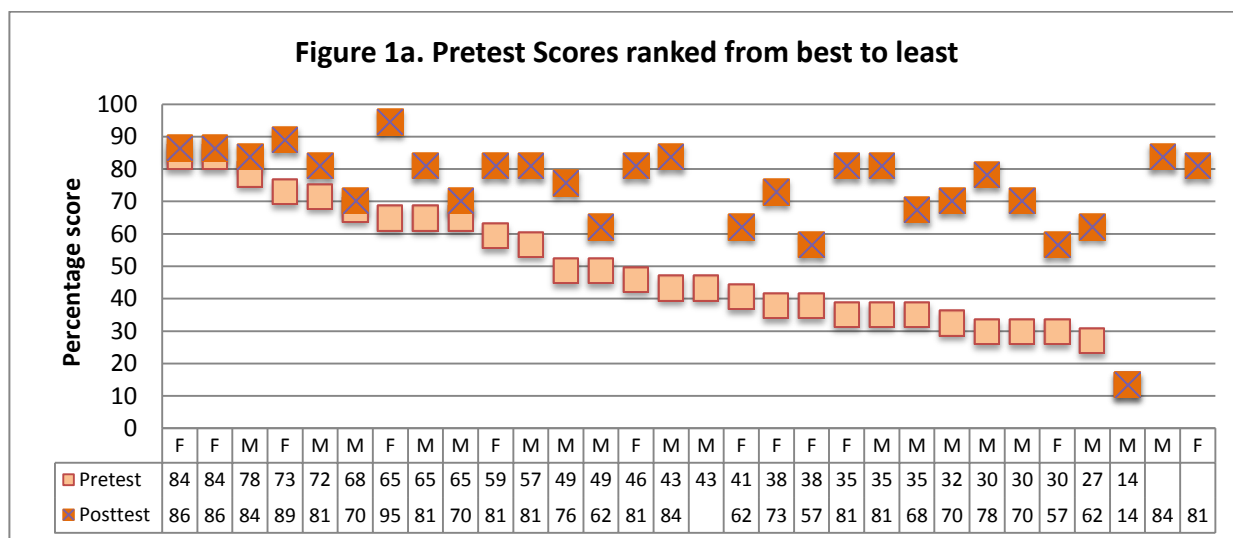
It is worth noting that the female participants had higher mean, maximum and minimum percentage scores than the male participants in the posttest (Table 4b). The first four best participants were females (Figure 1b) on positions one and two.

Table 4a: Participants’ Mean, maximum and minimum percentage scores for the pre and post tests

	Pretest (at beginning)	Posttest 2 (at end)	Difference (%)
Number of	28	29	
Mean % score	49	74	
Maximum % score	84	95	
Minimum % score	14	14	

Table 4b: Participants’ test results by sex

	Gender	Pretest	Posttest	Difference
Number of participants	Female	11	12	
	Male	16	16	
Mean % score	Female	54	77	24
	Male	49	75	27
Maximum % score	Female	84	95	11
	Male	78	84	5
Minimum % score	Female	30	57	27
	Male	27	62	35



2.7. Course materials

Course materials given to each participant at the beginning of the course included:

- The manual “Everything you ever wanted to know about sweetpotato”
Reaching Agents of Change ToT Training Manual;
- Folder with RAC Brochures
- Course program
- Notepad, Pen and pencil
- Bag, t-shirt and cap
- 2010 Catalogue for Orange fleshed sweetpotato for Africa
- Swahili version of “What is damaging my sweetpotato? A field guide for farmers on pests and diseases of sweetpotato”

A number of materials required during the practical sessions were also given to the participants during the course sessions. At the end of the 10 day course all PowerPoint presentations, videos used and pictures were shared to participants through Drop box.

3. Evaluation of the course

3.1. Evaluation by participants

Participants' responses to the end of course evaluation indicate that they were very satisfied and happy with the whole process of organizing and conducting the course as well as the content and outcomes. There was strong agreement (over 90%) that the knowledge and skills obtained from this training was relevant to their livelihood and will help in sweetpotato production, utilization and marketing. A similar level of agreement was accorded to the facilitators' level of knowledge on the different topics they handled, presentation clarity and confidence when delivering their respective modules, and giving the participants opportunity to ask questions as well as providing satisfactory answers to the questions asked. The participants also agreed (over 70%) that there was enough time allocated to the course and had enough opportunity to practice the skills as opposed to hearing about them or just watching them being demonstrated. This led to their high level (80.7%) of understanding of the course content. Over 75% of the participants felt the timing, length and venue of the course was convenient.

With respect to course content, the participants found it to be adequate. They were confident that the training will translate into improved OFSP production (79.8% level of agreement); increased OFSP processing and utilization (73.9% level of agreement); and increased OFSP marketing (78.3% level of agreement). The participants indicated that this will be possible, among others, if: 1) there is adequate availability of clean planting materials, 2) the knowledge acquired is implemented and 3) there is good promotion and sensitization of OFSP.

Overall, the participants found marketing and value addition of sweetpotato to be most useful followed by sweetpotato production and management as well as sweetpotato seed systems. However, the participants felt that the course would be improved if there was more time and better time management as well as more practical sessions. This would increase their participation during sessions and facilitate exchange of ideas among participants. Despite this, there was high agreement that the course was relevant and it met their expectations; and that the course objectives were well communicated to them.

Results of course evaluation by participants as well as their daily reflections are presented in Appendix 4.

3.2. Evaluation by facilitators

The facilitators were pleased with the course, especially that it involved a different approach in delivery. They appreciated learning and experiencing adult leaning methodology, facilitation skills as well as session planning. They were further delighted with the zeal and active participation of the participants in each and every aspect of the course, from the first to the last day of the course. They noted that the participants showed they enjoyed the course by their active participation and involvement during the entire course.

The facilitators felt that the course was well designed and that there was a good balance between practical and theory sessions. They further noted that the TOT training manual for this course was well written and had all the relevant details to guide facilitation of the course. They however, noted that there were some few areas that were missing in the manual that need to be added. These include: weed management, integrated pest management (IPM), sweetpotato knowledge portal, and entrepreneurship. The national facilitators were particularly happy with the presence and twinning with well experienced CIP facilitators in preparing and delivering the course. This facilitated their learning and preparedness to deliver the next course when they will take the lead.

Appendixes

Appendix 1. List of participants

Name	Gender	Organization	Designation	Address	Country	Fax No.	Office Telephone	Mobile No.	Email (Official)	Email (Personal)
Caroline Agamala Kundu	Female	KARI-Kakamega	Research Scientist	Box 169-50100 Kakamanga	Kenya	+254 56 30039	+254 56 30039 / 30031 / 30049	+254 715 139 200 / 734 945 219	kaRikakamega@yahoo.co.uk	cagamala@yahoo.co.uk
Makokha Phabian	Male	Community research in Environment and Development Initiatives	Project Officer	Box 641 Bungoma	Kenya		+254 704 481 841	+254 727 063 079	creadis2000@yahoo.com	phabianmakokha@yahoo.com
Isabella Kanaga Ememwa	Female	Kenya Agricultural Research Institute	Research Officer II	P.O. Box 169-50100 Kakamega	Kenya	+254 56 30039	+254 5630031 /30039 /30049	+254 735 618 237	karikakamega@yahoo.co.uk	iememwa@yahoo.com
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Donald Betwala	Male	SUGECO	Member	Box 3223 Morogoro	Tanzania		+255 715 024 645	+255 657 363 600 / 764 987 315	sugecosua@yahoo.com	betwala21@gmail.com
Lucy M. Maziku	Female	DAI-IMARISHA	Livelihood Coordinator	Box 60652 Dar es Salaam	Tanzania	+255 222 772 600	+255 222 775 503	+255 682 657 705 / 714 504 771	Lucy_maziku@dai.com	lrmbambe@yahoo.co.uk
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Rahila Amour Mohammed	Female	ARI- Ukiriguru	Agricultural Research Officer	Box 1433 Mwanza	Tanzania			+255 755 037 471	rahilamour@yahoo.com	rahilamour@yahoo.com
Innocent Lwabuti	Male	RUDDO	Partner Supervisor	P.O. Box 1078ihalamulo	Tanzania	255 28 2225052	+255 28 2225052	+255 787 864 993 / 753 619 157	rndipeace@yahoo.com	lwabutinnocent@yahoo.com
William Sig Byabato	Male	Geita District Council	SMS-Roots & Tubers	PO Box 83 Geita	Tanzania	+255 28 2520061	+255 784 727 122	+255 763 084 098 / 785 226 422	kilimogeita@yahoo.com	
Charles P Mgeni	Male	Sokoine University	Assistant Lecturer	P.O. Box 3007 Morogoro	Tanzania			+255 753 480 216 / 0714 745 880	charlesmgeni099@sua.ac.tz	chrismgene099@gmail.com
Stephan E. Ngailo	Male	Sugarcane Research Institute	Principal Agricultural Research Officer I	Box 30031Kibaha	Tanzania			+255 755 953 501	sri@iwayafrica.com	211555348@stu.ukzn.ac.za / ngailose@yahoo.co.uk
Salma Omar Mohammed	Female	Kizimbani Agricultural Research Institute	Root Crop Research Assistant	P.O. Box 159, Zanzibar	Tanzania			+255 777 481 682 / 715 481 682	taasisikilimo@hotmail.com	salmaomoh@hotmail.com
Domina Esther Mbela Nkuba	Female	Ministry of Agriculture Food Security & Cooperative - (MATI) - Makuru	Tutor	P.O. Box 127 Bukoba	Tanzania	+255 732 983 258	+255 732 983 258	+255 714 774 794	marukuardi@yahoo.com	dominankuba@yahoo.com
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Appendix 2. Detailed session plans

PLAN OF DAY 1

Course:	Everything you ever wanted to know about sweetpotato			Period:	19 - 30 November, 2012
Day	1	Date	19 th November	Topic	Program and course objectives Importance of sweetpotato, production and utilization OFSP and Nutrition
Intended Learning Outcomes			At end of this session participants will : <ul style="list-style-type: none"> • Understand the objectives and program of the course and how the course will improve their abilities to train others • Understand the importance of sweetpotato, production and utilization • Understand what a balanced diet is and why it is important • Understand how OFSP can contribute to reducing Vitamin A deficiency • Be able to prepare a child-friendly OFSP dish • Understand the importance of the gender aspects of household nutrition 		
Duration:			7 hours		

ACTIVITIES DURING DAY 1

Hours	Local	Activity	Duration	Instruction for Participants	Instruction for facilitators	Responsibility	Materials required
9:30 -10:00	Lecture room	Opening session	30 min	Each participant presents him/herself to the group referring to his work and professional experience	Welcome remarks by guest of honour: The Dean of Faculty of Agriculture	Anna Temu Hilda Munyua Kido Mtunda	
10:00 - 10:30	Group photograph & Tea/Coffee break						
10:30 - 12:00	Lecture room	Participants expectations	5 min		Facilitators hand on post-it or cards and markers to participants	Hilda Munyua Jonathan Mkumbira Godfrey Mulongo	cards/posts-it and markers

			10 min	Participants write their expectations on cards	Facilitators give instructions for participants to list 5 things they expect from the	Hilda Munyua Jonathan Mkumbira Godfrey Mulongo	
			10 min		Facilitators group cards by common aspects in flip-charts		Flipcharts markers, bostik
		Course overview and learning objectives	30 min	Participants comment and get clarifications on program	Facilitator present the program for the course; comment on expectations that will be met and the ones that will not be	Jonathan Mkumbira	Power point , flipcharts, markers, bostik
		Benchmark Assessment	35 min	Participants write sweetpotato knowledge test	Facilitators hand in test and instructions for	Jonathan Mkumbira Hilda Munyua	Copies of knowledge test, pens
12:00 – 13:00	Lecture room	Brain storming and lecture on Sweetpotato history, importance, trends in production and utilization and problems faced by farmers	60 minutes	Participants brainstorm and listen to the lecture presentation	Lead the brainstorming session and latter presents a lecture	Kiddo Mtunda	Computer, power point presentation
13:00 – 14:00	Lunch Break						
14:00 – 16:00	Lecture room	Brainstorming: What is a balanced diet?	15 minutes	Participants share their ideas on what is a balanced diet	Facilitator moderate brainstorm	Margaret Benjamin	
		Presentation: What is good nutrition?	45 minutes	Participants take note of the explanation and make questions	Facilitator presents the topic, based on the manual and answer any questions from the participants	Margaret Benjamin	Computer, power point presentation
16:00 – 17:00	SUGECO Processing facility	OFSP Processing	60 minutes	Participants process different varieties of OFSP into chips and place them on a drying rack	Facilitator explain what should be done and monitor the activity	Maryam Kilima Kiddo Mtunda	OFSP roots, knives, basins, water, chipping machine, drying rack

PLAN OF DAY 2

Course:	Everything you ever wanted to know about sweetpotato			Period:	19 - 30 November, 2012
Day	2	Date	19 November	Topic	Different varieties of sweetpotato and their characteristics
Intended Learning Outcomes			At end of this session participants will: <ul style="list-style-type: none"> • Understand key differences between sweetpotato varieties • Know about the key characteristics of at least 3 sweetpotato varieties suitable for their area/ region • Be able to help farmers identify the key characteristics they are looking for in a sweetpotato variety • Understand that varietal preference differs between people • Understand why care during harvesting is important for sweetpotato • Be able to conduct a variety ranking test (using red, yellow and green cards) • Be experienced in conducting a taste test (using red, yellow, and green cards) 		
Duration:			3 hours 10 minutes		

ACTIVITIES DURING DAY 2

Hours	Location	Activities	Duration	Instruction for participants	Instruction for facilitators	Responsibility	Materials required
11:15 - 12:45	Field	Field Walk:	10 min	30 Participants split into 3 groups (for each group work in pairs)	a) Facilitators present the objectives, activities, duration of the topic and the reference material b) Divide the 30 participants into 3 groups. Let participants in each group work in pairs – Explain the reason for working in groups and pairs	Robert, Kido, Jonathan	

		Identify characteristics of different sweetpotato varieties in field	1 hr	Identify characteristics of different sweetpotato varieties in a nearby Field a) Foliage (20 min) b) Roots – dig up carefully (20 min), i) beta-carotene evaluation for storage, ii) for taste test iii) storage c) Each group to demonstrate on-farm data taking (20 min)	Guide the participants to use the descriptors. Let each pair work on two varieties. Guide the participants on: a) Foliage b) Choosing roots for i) beta-carotene determination ii) taste test iii) storage Guide the participants on data taking for on-farm trials	Kido, Jonathan and Robert	Pencils, erasers, participants notebooks, hoes, knife, color chart, handouts a) on sweetpotato descriptors b) Sample farmer contract for on-farm trial c) Form 4B. SP pre-harvest d) Form 5A. Farmer participatory field evaluation e) Form group ranking field performance f) Form 5B. Farmer participatory taste evaluation g) Form group ranking consumer acceptability/roots
		Conduct a taste evaluation	1 hr	Conduct a taste evaluation	a) Do the cooking in advance b) Explain to the participants the taste test protocol i) individual evaluation ii) group evaluation	Robert, Kido, Jonathan	Storage roots of the taste evaluation, cooking stoves and fuel, pans, water, matches, knives, taste test forms, pencils, flip chart, markers, Plenty of color cards (green, yellow, red), many bags for the bags
		Group discussion (back in Class) on key factors differentiating sweetpotato varieties	20 min	Group discussion on key factors differentiating sweetpotato varieties and which are important for which reasons	Let the group leaders discuss the key factors	Robert, Kido, Jonathan	Flip Charts, markers

		Participants create promotion posters / training materials	20 min	Participants create promotion posters / training materials for the main sweetpotato varieties grown or suited to their location	Guide the 5 groups each to produce posters/training materials	Kido, Jonathan and Robert	Flip Charts, markers
		Presentation summary	20 min	Presentation summarizing : the natural diversity of sweetpotato; defining characteristics of different sweetpotato varieties; methods for on-farm testing of different sweetpotato varieties	Ask, add, comment on presentation	Robert, Kido and Jonathan	Powerpoint, flip chart, markers

PLAN OF DAY 3

Course:	Everything you ever wanted to know about sweetpotato					Period:	21 st November, 2012
Day	3	Date	21 st November	Topic	Selecting, preserving and multiplying SP planting materials		
Intended Learning Outcomes			At end of this session participants will: - Be able to identify , select and maintain clean sweet potato seeds for planting - Understand the principles of positive selection and seed conservation - Understand multiplication rates and how varieties differ				
Duration:			7 hours				

ACTIVITIES DURING DAY 3

Hours	Local	Activities	Duration	Instruction for participants	Instruction for facilitators	Responsibility	Materials required
10:30 - 13:00 (2:00'')	TPL Conference room	Introduction	20 min	Participants register and ask for clarification if needed	Facilitators present objectives, activities and reading material for the topic, Seed and seed system	Kiddo Mtunda	Data-show, computer, Notebook, pen
		Facilitator presentation	30 min	Participants listen, register, make questions and answer questions To write down an exercise on Key actors and their responsibilities in cards	The facilitators explains choosing planting materials, concept of healthy plants and healthy planting materials and rapid multiplication technique, Few participants to read their cards and summarize the session	<u>Sammy Agili</u>	Data-show, computer , Notebook, pen
		Facilitator presentation	40 min	Participants listen, register, make questions and answer questions	The facilitators explains conservation of planting materials and introduces Tripe S	<u>Sammy Agili</u>	Data-show, computer, Notebook, pen
		Group exercise	40 min	Participants to work in three groups to construct a general agricultural calendar, multiplication and dissemination	Constructing multiplication and dissemination plan	Kiddo Mtunda	Flip charts, marker pens
13:00 -14:00	TPL	Lunch					
14:00 - 15:00	TPL	Group presentation	60 min	Each group presents their exercise	Facilitators to guide presentations	Kiddo, Sammy	Flip charts, computer, marker pens etc.
15:00 - 17:00	SUGECO Field	Field trip	120 min	Practice rapid multiplication technique, triple S, net tunnel, health	Facilitator to demonstrate the techniques	Kiddo Mtunda Sammy Agili	
17:00 - 17:30		Discussion and reflection	30 min	Participants ask questions and answer questions and reflect on	Facilitators ask questions, facilitate discussion and summarize	Sammy Agili and Kiddo Mtunda	Notebook and pen; reflection form

PLAN OF DAY 4

Course:	Everything you ever wanted to know about sweetpotato				Period:	21 st November, 2012
Day	3	Date	21 st November	Topic	Selecting, preserving and multiplying SP planting materials	
Intended Learning Outcomes			At end of this session participants will: - Be able to identify , select and maintain clean sweet potato seeds for planting - Understand the principles of positive selection and seed conservation - Understand multiplication rates and how varieties differ			
Duration:			7 hours			

ACTIVITIES DURING DAY 4

08:00-08:30		Group presentation	30 min	Each group presents the multiplication and	Facilitator to guide presentations	Kiddo, Sammy	
08:30-08:40		Discussion and summary	10 min	Participants make questions and answer questions	Facilitators provide answers to questions and	Sammy Agili Kiddo Mtunda	Notebook, pen
08:40 - 09:00		Facilitator presentation	20 min	Participants listen, make questions and answers	Facilitators explains DVMs	Sammy Agili	Note books, pen
09:00 - 09:20	TPL Conference	Facilitator presentation	20 min	Participants listen, register, make questions and	Facilitator explains Guidelines in Costing Seed multiplication and	Kiddo Mtunda	
09:20-10:20	TPL	Group exercise	60 min	Participants divide into three groups and calculate costs for multiplication and dissemination plan	Facilitator to guide group work	Kiddo Mtunda and Sammy Agili	Flip charts, Computers
10:20-10:50	TPL	Health break	30 min				
10:50-11:20	TPL	Group Presentation	30 min	Groups to present their assignment on costs	Facilitators to guide	Kiddo Sammy	
11:20 - 12:20	TPL Conference room	Introduction session	60 min	Participants expectation Learning outcomes	Facilitator to distribute idea cards and make power point presentation	Silver, T	Data-show, computer, Notebook, pen

12:20-13:00		Crop calendar	80 min	Participants to divide into groups and perform crop calendar exercise	Facilitator to guide groups	Silver, T	Data-show, computer, Notebook, pen
		Facilitator to make presentation		Participants to listen and question	Facilitator to present on: planning sweetpotato, site selection and propagation, planting materials, intercropping procedures	Silver, T	
13:00 - 14:00	TPL	Lunch					
14:00 - 14:30	TPL	Facilitator presentation	300 min	Participants listen, register, make questions and answer questions	Facilitator presents on Crop physiology	Kiddo	
14:30 - 15:00		Facilitator Presentation	30 min	Participants listen, register, make questions and answer questions	Facilitator presents on Nutrient requirements	Sammy Agili	
15:00 - 17:30		Field practical	120 min	Participants to practice field planting of experiment, transect walk	Facilitators ask questions, facilitate discussion and summarize	Sammy Agili and Kiddo Mtunda	Pegs, rope, cuttings, labels

PLAN OF DAY 5

Course:	Everything you ever wanted to know about sweetpotato				Period:	19 - 30 November, 2012
Day	5	Date	23 rd November	Topic	Pest and diseases of sweetpotato	
Intended Learning Outcomes			At end of this session participants will: <ul style="list-style-type: none"> - Be able to recognize main field and postharvest pests and diseases of sweet potato in East Africa. - Recognize pests, diseases, life cycles and symptoms - Understand the importance and management of pests and diseases in sweetpotato production - Be able to identify pest management practices for pests and diseases 			
Duration:			7.50 hours			

ACTIVITIES DURING DAY 5

[illegible]

16.00 - 17:30	Field	Practical activities: 1. Pest and diseases identification and sample collection in a sweet potato field 2. Group discussion on what was found 3. Roots dissection and identification of different life cycle stages 4. Calculations on infestation and infection level	5.		Facilitators oversee participants activities and facilitate discussion, and summarize conclusions	Silver, Mbilinyi & Marton	knives, paper bags, vials, magnifiers, markers, labels,
17:30 - 17:50	Classroom	Reflection day's activities	20 min	Participants fill in reflection Forms	Facilitators hand in reflection forms	Jonathan Mkumbira	Reflection forms

PLAN OF DAY 6

Course:	Everything you ever wanted to know about sweetpotato				Period:	19 - 30 November, 2012
Day	6	Date	26 th November	Topic	Gender & Nutrition; Entrepreneurship	
Intended Learning Outcomes			At end of this session participants will: <ul style="list-style-type: none">• Understand the importance of the gender aspects in OFSP• Understand the concept of entrepreneurship and explain entrepreneurial decision process.• Understand how to identify and pursue opportunities in the OFSP value chain			
Duration:			8 hours			

ACTIVITIES DURING DAY 6

Hours	Local	Activities	Duration	Instruction for participants	Instruction for facilitators	Responsibility	Materials required
08:00 - 11:00	Classroom	Brainstorming	50 min	Participants discuss on who are entrepreneurs, their characteristics and behaviour	Facilitators introduce the activity, guide the group and open the discussions	Sindi & Joseph	35 copies of exercise 1, 35 pieces of the yellow stickers, and 1 flip chart.
		Short guided discussion for consensus	20 min	Participants share their ideas on what is Entrepreneurship	Facilitators moderate and guide the discussions	Sindi	
		Practical exercise: (9:10 – 9:30 am)	20 min	Participants evaluate entrepreneurial attitudes and intentions	Facilitator introduce, moderate and guide the discussions	Joseph	
		Presentation: Identifying and pursuing entrepreneurial opportunities in OFSP	30 min	Participants listen, ask and answer questions	Facilitator present the subject, ask and answer questions	Sindi	
		Exercise:	10 min	Participants do an exercise on “Understanding the opportunity possibilities in OFSP”	Facilitators introduce the activity and move around guiding the exercise and clarifying all doubts	Daniel	

		Presentation on : 1. Understanding the concept of technology transfer, its supply chain and associated products 2. Conceptualize the knowledge in OFSP technology transfer process and methods 3. Identification of different areas in OFSP technology transfer process where entrepreneurship can easily add value during the implementation process	50 min.	Participants listen, ask and answer questions	Facilitator present the subject, ask and answer questions	Joseph	
11:00 - 11:30		Coffee break					
11:30 – 14:00	Classroom	Presentation on Gender aspects in OFSP	150 min.	Participants listen, ask and answer questions	Facilitator present the subject, ask and answer questions	Prof Joyce Lyimo Macha	
		Group discussion on strengths and weaknesses of approaches and tools, integrating gender		Participants discuss and share ideas on the strengths and weaknesses of gender issues in OFSP in their areas	Facilitator introduce, moderate and guide the discussions		
14:00 – 15:00	Lunch Break						
15:00 – 17:00	Classroom	Practical session on OFSP processing	120 min.	Participants prepare OFSP roots for the Value addition session	Facilitator introduce the practical session, divide the participants in groups, provide the materials and guide the practical session	Maryam Kilima	

PLAN OF DAY 7

Course:	Everything you ever wanted to know about sweetpotato				Period:	19 - 30 November, 2012
Day	7	Date	23 rd November	Topic	Planning a dissemination and planting material multiplication program	
Intended Learning Outcomes			At end of this session participants will: - Understand all important steps and possible constraints that arise during a planning of dissemination using plant material multiplication methods - Prepare a dissemination program for 5000 households - Be able to monitor the dissemination of plating materials			
Duration:			8 hours			

ACTIVITIES DURING DAY 7

Hours	Local	Activities	Duration	Instruction for participants	Instruction for facilitators	Responsibility	Materials required
8:30 - 10:30	Classroom IPU	Introduction to the session	5 min.	The participants take note of the explanation, make questions and answer to questions	The facilitator presents the objectives, program, , duration, materials and of the session	Jonathan Mkumbira	Datashow, computer
		Brainstorm about the importance of planning and of establishing a dissemination and multiplication program	10 min.	The participants share their views about the establishment of a dissemination and multiplication plan	Facilitator moderates the discussion and registers in the blackboard the main ideas of participants	Jonathan Mkumbira Godfrey Mulongo Kiddo Mtunda	Backboard, chalk, eraser
8:00 - 10:00	Classroom IPU	Presentation: Choosing the seed multiplication and dissemination strategy	45 min.	Participants take note of the explanation, make questions and answer to questions	Facilitator explains the different levels of multiplication and dissemination, actors in the system, factors for decision making regarding multiplication and dissemination strategy	Jonathan Mkumbira Godfrey Mulongo Kiddo Mtunda	Backboard, chalk, eraser, flipchart, posters, manual
			45 min.	Participants take note of the explanation, make questions and answer to questions	Facilitator explains the strategies for dissemination (centralized and decentralized) (emphasis in DVM); subsidized and commercialized (voucher use).	Jonathan Mkumbira Godfrey Mulongo Kiddo Mtunda	Backboard, chalk, eraser, flipchart, posters, manual

10:00 - 10:30		Break	30 min.				
10:30 - 12:00	Classroom IPU	Presentation: Monitoring of the dissemination and OFSP utilization	30 min	Participants take note of the explanation, make questions and answer to questions	Facilitator explains concepts of monitoring and evaluation applied to program f dissemination of	Godfrey Mulongo Kiddo Mtunda Jonathan Mkumbira	Backboard, chalk, eraser, flipchart, posters, manual
		Practical activity: see <i>Activity 12.3.1 – ToT manual</i>)	30 min	Participants practice monitoring of dissemination of planting material	Facilitator moderates discussion on importance of monitoring and dissemination of planting materials	Godfrey Mulongo Kiddo Mtunda Jonathan Mkumbira	200 vouchers for planting material with required information to Table 12.2.2, 40 copies of form 12.2.2, pens
12:00 - 13:00	Lunch						
13:00 - 15:45	Classroom IPU	Practical activity (See ToT Manual 5.9.4) on determination of quantity of planting materials	45 min.	In groups of 4, participants practice calculations on quantities of planting materials needed (see form a	Facilitators explain exercise and monitor practical activities and asks questions to participants regarding steps taken	Godfrey Mulongo Kiddo Mtunda Jonathan Mkumbira	Flipcharts,marker, tape, copies of forms 5.9.4a and 5.9.4b, pens
		Practical activity (see ToT Manual 5.9.3.a) on planning of dissemination strategy	120 min	In groups of 8, with a leader and a rapporteur, each group does a multiplication schedule for their regions (form 5.9.3a); each group prepares two different dissemination plans (scenario	Facilitators explain exercise, monitor group work and facilitate discussion in groups	Godfrey Mulongo Kiddo Mtunda Jonathan Mkumbira	Booknote, flipchart, markers, 35 copies of ToT forms 5.9.3a, 70 copies of ToT form 5.9.3b
		Reflection and evaluation of session	20 min	Participants ask questions and answer questions and reflect on the day's activities and learning	Facilitators ask questions, facilitate discussion and summarize	Godfrey Mulongo Kiddo Mtunda Jonathan Mkumbira	Reflection forms

PLAN OF DAY 8

Course:	Everything you ever wanted to know about sweetpotato				Period:	19 - 30 November, 2012
Day	8	Date	28 th November	Topic	Marketing and Value Chains	
Intended Learning Outcomes			At end of this session participants will: <ul style="list-style-type: none"> • Understanding the opportunities and challenges in sweet potatoes fresh root marketing • Understanding the 5 pillars of marketing + case study 			
Duration:			8 hours			

ACTIVITIES DURING DAY 8

[illegible]

14:30 – 17:50	Market & Classroom	Market field visits	15 min.	Going to market	Facilitators guide the participants	Joseph, Sindi and Daniel	Bus, pens, notebooks
			1 hr. 30 min	Visit the market section on fresh sweetpotato.			
				Another group visit Sweet potatoes processed products, sport markets and supermarkets			
			15 min	Going back to class			
			1 hr.	Discussion			
		Reflection and evaluation of session	20 min	Participants reflect on the day's activities and learning	Facilitators ask questions, facilitate discussion and summarize	Jonathan Mkumbira	Reflection forms

PLAN OF DAY 9

Course:	Everything you ever wanted to know about sweetpotato					Period:	19 - 30 November, 2012
Day	9	Date	29 th November	Topic	Harvesting, Processing and postharvest management		
Intended Learning Outcomes			At end of this session participants will: - Describe and understand the main aspects of sweetpotato harvesting, processing and post-harvest management. - Understand how the processing and storage of OFSP affects its beta-carotene content				
Duration:			8 hours				

ACTIVITIES DURING DAY 9

Hours	Local	Activities	Duration	Instruction for participants	Instruction for facilitators	Responsibility	Materials required
8:00 - 8:30	Lecture room	Introduction to the topic	30 min	Participants take note of the explanation, make questions and answer to questions	Facilitator explains concepts related to processing and post-harvest management of OFSP	Sindi	Flipcharts, markers
8:30 – 9:00	Lecture room	Video show on sweetpotato harvesting, grading and postharvest management Discuss the video	15 minutes	Participants take notes of the explanation, make questions and answer to questions	Facilitator explains concepts related to processing and post-harvest management of OFSP	Sindi	Computer and projector
09:00 – 11:00	Lecture room	Lecture on sweetpotato harvesting, grading, processing and postharvest management Group discussions & brainstorming session	2 hours	Participants take notes of the explanation, make questions and answer to questions	Facilitator explains concepts related to processing and post-harvest management of OFSP	Sindi	
11:00 – 17:00	SUGECO Kitchen	Practical: processing and utilization of OFSP	6 hrs	Participants make a variety of products, demonstrate and taste	Facilitators explain procedures and monitor participants activities	Irene de Souza Anna Temu Maryam Kilima	OFSP, sugar, flour, margarine, water, bottles for juice, dish cloths, mixer, oil, sieve, pans, wooden spoons, cups, charcoal, charcoal stove

							branches, grass and string
13:00 - 13:45		Lunch					
13:45 - 14:45	Classroom IPU	Practical: identification of the content of beta carotene in different samples of dry OFSP chips	30 min	Participants observe, identify differences and estimate content of beta carotene in the different samples of dry OFSP chips	Facilitators prepare different samples of dry OFSP chips and explain how to identify presence of beta carotene and estimate its content		Three samples of OFSP chips which have been sun dried for 7, 5, or 2 days in advance
14:45 – 17:00	Kitchen IPU	Practical activity: processing of OFSP	135 min	Participants make bread and jam as well as enriched children food	Facilitator monitors group activities		Salt, yeast, flour, OFSP, sugar, pans, wooden spoon, oranges, water, tray,
17:00 - 17:20	Classroom IPU	Reflection and evaluation of session	20 min	Participants ask questions and answer questions and reflect on the day's activities and learning	Facilitators ask questions, facilitate discussion and summarize	Jonathan Mkumbira	Reflection forms

PLAN OF DAY 10

Course:	Everything you ever wanted to know about sweetpotato				Period:	19 - 30 November, 2012
Day	10	Date	30 th November	Topic	Planning to train others on ‘ <i>Everything you ever wanted to know about sweetpotato</i> ’	
Intended Learning Outcomes			At end of this session participants will: <ul style="list-style-type: none">- Understand and have developed the draft learning outcomes and approaches, training materials and draft logistics plans (timing, venue & field sites, participants) of the sweetpotato training courses they will be delivering- Be able to deliver a 5 day training course on ‘<i>Everything you ever wanted to know about sweetpotato</i>’			
Duration:			5 hours			

ACTIVITIES DURING DAY 10

Hours	Local	Activities	Duration	Instruction for participants	Instruction for facilitators	Responsibility	Materials required
8:00 - 09:00	Lecture room	Presentation and video shows	60 min	The participants take note of the explanation, make questions and answer to questions	Facilitators present the topic referring to how adults learn, characteristics of a good facilitator, needs assessment and formulation of intended learning outcomes, key approaches in discovering learning, selection of participants and course planning	Jonathan Mkumbira	Data show, power point
9:00 - 10:30	Lecture room	Group discussion and preparation role playing for a week and strong facilitator Role play by the groups	90 min	Participants discuss in groups on a specific topic from the 5 day ToT course) and preparation role playing for a week and strong facilitator Each group stage a role play for a weak and strong facilitator and the other groups point out the weak and strong points in each case	Facilitators explain the Exercise and distribute a card to each group with different topic from the 5 day ToT Facilitator summaries the discussions after each role play and refer to lecture notes and video	Jonathan Mkumbira	cards of the key topics from the 5 day ToT course, ToT manual, note books and pens; stickers/ post-its, flip charts, masking tape, marker pens

10:30-11:00	Lecture room	Make own plan	30 minutes	Participants make a plan for what they are going to do (training) for the next months	Facilitators explain exercise and monitor work	Godfrey Mulongo Jonathan Mkumbira	Pens notebooks
11:00-12:00	Lecture room	Repeat sweetpotato knowledge test as exit test (Appendix	30 min	Participants take test	Facilitators hand in test	Jonathan Mkumbira Godfrey Mulongo	copies of the test and pens
		Course evaluation	10 min	Participants fill in the evaluation form	Facilitators explain how to fill in the evaluation form	Jonathan Mkumbira Godfrey Mulongo	Evaluation forms
		Closing of the course and certificate presentation	20 min	Participants listen to closing speeches and receive certificates	Facilitators and invited guests summarize, course, thank participants and wish them well. Certificates are presented	All course facilitators and partners	
12:00 – 13:00	Lunch Break						
13:00-16:00	Lecture room	Meeting of training facilitators to capture lessons learned					All facilitators

Appendix 3. Participants' test results - Tanzania

Name	Sex	Pretest	Pretest	Posttest	Posttest	
		Marks	Percentage	Marks	Percentage	% Increase
Festo Seheye	Male	13	35	25	68	32
Dominick E Pingo	Male	16	43			
Winza Amos Nzaga	Male	18	49	28	76	27
Laurian Lameck	Male	10	27	23	62	35
Julius Mwinuka	Male	24	65	26	70	5
Elizabeth Peter Mpayo	Female	14	38	27	73	35
Charles M Sagenge	Male	12	32	26	70	38
Yusuph Mohamed	Male	13	35	30	81	46
Akida Ignas Meya	Male	16	43	31	84	41
Edith Munganyinka	Female	15	41	23	62	22
Ihuya M. L. Zephania	Male	25	68	26	70	3
Mary Mkunde Bonaventure	Female	17	46	30	81	35
Donald Betwala	Male	18	49	23	62	14
Lucy M. Maziku	Female	13	35	30	81	46
Elias Lwekaza	Male	24	65	30	81	16
Mariana Hermes Massawe	Female	22	59	30	81	22
Rahila Amour Mohammed	Female	24	65	35	95	30
Innocent Lwabuti	Male	11	30	26	70	41
William Sig Byabato	Male	11	30	29	78	49
Charles P Mgeni	Male	29	78	31	84	5
Caroline Agamala Kundu	Female	31	84	32	86	3
Habumuremyi JMV	Male	5	14	5	14	0
Makokha Phabian	Male	26.5	72	30	81	9
Isabella Kanaga Ememwa	Female	31	84	32	86	3
Busingye Justine	Female	11	30	21	57	27
Stephan E. Ngailo	Male			31	84	
Salma Omar Mohammed	Female	14	38	21	57	19
Domina Esther Mbela Nkuba	Female	27	73	33	89	16
Ngabo Pamba	Male	21	57	30	81	24
Helen-Clara Kiozya	Female			30	81	
Number of participants		28	28	29	29	27
Mean		19	49	27	74	25
Max		31	84	35	95	11
Min		5	14	5	14	0
Min (minus Habumuremyi)		10	27	21	57	30
Mean (minus Habumuremyi)		19	50	28	76	26

Appendix 4. Course evaluation and reflections by participants

COURSE EVALUATION

1. Which aspects of the training did you find most useful?

Topic	Frequency	Percent
Orange-fleshed sweetpotato and nutrition	1	3.3%
Sweetpotato seed systems	3	10%
Sweetpotato production and management	4	13.3%
Sweetpotato pest and disease management	2	6.7%
Harvesting and post-harvest management	2	6.7%
Marketing and value addition	13	43.3%
Processing and utilization	2	6.7%
Missing	3	10%
Total	30	100%

2. Which aspects of the training did you find least useful?

Topic	Frequency	Percent
Gender and diversity aspects	2	6.7%
Processing and utilization	1	3.3%

Items	Level of Agreement	Remarks/Explanation
4. Will the knowledge and skills from this training help you in your sweetpotato production, utilisation and marketing?	93.8%	
5. What level of understanding did you have regarding the course content?	80.7%	
6. Was the course information relevant to your livelihood?	90.3%	
7. Was enough time allocated for the course?	72.4%	
8. How would you rate the facilitators' level of knowledge on the topic?	93.8%	
9. Were the facilitators clear and confident in their tasks and presentations?	93.8%	
10. Did you have enough opportunity to practice the skills as opposed to just hearing about them or watching them being demonstrated?	77.8%	
11. Were there enough opportunities to ask questions?	94.5%	
12. Were satisfactory answers given by the facilitators?	92.9%	
13. Were the timing, length and venue of the course convenient?	75.7%	
14. On a scale of 1 (low) to 10 (high), how confident are you that the training will translate into: - improved OFSP production? Please briefly explain your answers.	79.8%	1. Content taught was adequate-48.3% 2. More practicals to increase competency-6.9% 3. Depends on availability of clean planting materials-13.8% 4. Depends on stability of climate-3.4% 5. Depends on availability of funds-3.4% 6. Spreading the knowledge acquired to others -6.9% 7. Depends on perception and adoption by clients-3.4%

15. - increased OFSP processing and utilization?	73.9%	1. Inadequate time for practicals-3.4% 2. Gained adequate knowledge-10.34% 3. Creation and demonstration of OFSP products - 6.9% 4. Linkages between different stakeholders - 3.4% 5. Implementation of the knowledge acquired - 10.3% 6. Increasing production-3.4% 7. No recipes for some products-3.4% 8. More investment needed-3.4%
16. - increased OFSP marketing?	78.3%	1. Training more people -6.9% 2. Promotion or sensitization-13.8% 3. Knowledge acquired-6.9% 9. Role playing by policy makers-3.4% 10. Marketing technology deliverance-3.4% 11. Producing different products--3.4% 12. Inadequate time--3.4% 13. Knowing the importance of the crop--3.4% 14. No marketing practicals--3.4% 15. Up scaling needed-3.4%

How could a training course like this **be improved**?

16.

Recommendation	Percentage (<i>Multiple response possible</i>)
1. Increase time/ Time management	34.5
2. More practicals	31.03
3. Increase funding	3.4
4. More exchanging ideas btw participants	6.8
5. Adverts in media	3.4
6. Availability of training facilities in practical fields	3.4
7. Increase participation during sessions	3.4
8. A little better planning	6.8
9. Shorten days	3.4
10. More energizers	3.4

Others

Items	Level of Agreement
I was well informed about the course objectives	91.1%
Course was to my expectations	86.4%
Course was relevant	92.4%
Course objectives were clear to me	88.6%
Course activities stimulated learning	93.6%
Activities gave sufficient practice	83.4%
I always received feedback from facilitators	80.8%
Course activities were simple	71.7%
Time allocated for each activity was adequate	66.4%
All my questions were responded	89.0%
Accommodation was of good quality	72.4%
Food was of good quality	67.7%
Quantity of food was sufficient	76.6%
Resting time was sufficient	64.8%

Participants' reflections

Topic	What needs to be improved	What was not adequate	Ideas about activities of learning by doing type
1	improve Time= 8.3 %	time to relax- 1 /24 participant	all respondents said they quickly mastered the
	58.7% nothing to be improved	all respondents indicated that it was ok	
	33% did not respond		
topic 2	16.6% time	all respondents indicated that it was ok nothing short	all respondents said they quickly mastered the concept by learning by doing
	58.3% nothing to improve		
	25.5% no response		
Topic 3	20.8% highlighted time	nothing	all showed satisfaction
	79.2 % nothing to be improved		
Topic 4	8.3% time	everything was ok	it was a good experience
	58.3 % nothing to improve		
	33.4 no response		
Topic 5	12.5% time	all respondents indicated that it was ok nothing short	all respondents enjoyed learning by doing
	41% nothing to improve		
	8.3% improve level of material preparation		
Topic 6	16.6% time	all respondents indicated that it was ok nothing short	all respondents said they quickly mastered the concept by learning by doing
	58.3% nothing to improve		

Topic	What needs to be improved	What was not adequate	Ideas about activities of learning by doing type
	25.5% no response		
topic 7	4.2% highlighted time	nothing short by all who responded	higher number of respondents were satisfied by
	4.2% said it should have included lab		
	91.6% nothing to improve		
Topic 8			
	20.8% no respondents		
	79.8% said there is nothing to improve	Nothing short by all who responded	all who responded liked learning by doing
Topic 9	37.5% said nothing to improve		
	20% said the type of market visited could be improved next time	Nothing short by all who responded	higher number of respondents were satisfied by ;learning by doing

	4.2 % said time needs to be increased		
	38.3% did not respond		
Topic 10	8.3% complained about shortage of material for practicals	Nothing short by all who responded	higher number of respondents were satisfied by ;learning by doing
	37.5% said nothing to improve		
	4.2 % said time needs to be increased		
	50% did not respond		

Topic	What needs to be improved	What was not adequate	Ideas about activities of learning by doing type
Topic 11	50 % said nothing to improve		
	4.2 % said the participants should be gender balanced	Nothing short by all who responded	all who responded liked learning by doing
	55.8% did not respond		
Topic 12	20% said time needs to be increased	Nothing short by all who responded	all who responded liked learning by doing
	33.3% said nothing to improve		
	46.7% did not respond		
Topic 13	54.2 % said nothing to improve	Nothing short by all who responded	all who responded liked learning by doing
	45.8% no response		

Appendix 5: Participants Fears and Expectations

Expectations

- To have knowledge on production of OFSP
- Knowledge on value chain addition through processing
- Capacity building on how to deliver the knowledge attained through the course to producers / farmers
- Entrepreneur skills
- To know everything concerning production to utilization of the crop
- To know pests and diseases of sweetpotatoes
- Some knowledge of value chain in respect to sweetpotatoes
- To be equipped with knowledge on sweetpotato production along the sweetpotato value chain
- To get to learn OFSP better
- To learn new recipes
- Get equipped with knowledge on OFSP value chain sustainability
- Understand the best model of exit strategy towards the close of any OFSP project
- Acquire more knowledge and skills on OFSP – how it is processed, multiplied etc.
- Have knowledge which I can transfer to many Tanzanians about Vitamin A
- To start demo plots and points to display utilization of sweetpotato products.
- Learn more about OFSP
- How obtaining planting materials
- OFSP diseases
- How storing OFSP roots for long time
- Learn more about processing
- Packaging of products
- Marketing
- Value chain
- Certificate of the training
- To gain knowledge on sweetpotato production and utilization
- To improve my well-being (reasonable allowances for upkeep)
- Thorough understanding of the background, importance and trend of OFSP
- Enables me and my colleagues to foster the agricultural investment and OFSP in our communities
- As lobbyist and advocacy through G.As to enhance policy change as to priorities OFSP investment
- Increase consumption of OFSP in my family to prevent Vitamin A deficiency
- I expect to be well equipped with all the packages from selection of vines (production) to consumption (value chain)
- Issues will be discussed very clearly and broadly then the problem of Vitamin A will be reduced in the society
- Acquired knowledge from the TOT will be provided to other stakeholders – famers
- Funds will be supplied to the TOT for further trainings
- I expect to come up with a thorough / clear understanding of sweetpotato and its value chain
- To become ambassador or agent in dissemination of the knowledge and skills which I shall acquire
- To come up with thorough knowledge on the sweetpotato production and marketing
- To know more on value chain and be able to train others in my area after completing the course
- To gain knowledge on sweetpotato production, processing, utilization and marketing especially OFSP. This knowledge will assist me to motivate farmers to adopt more OFSP varieties to improve nutrition status as well as improve livelihood.
- To know everything about OFSP
- To know everything on value chain and OFSP
- To know the value chain of sweetpotato
- Proper coverage of the planned topic
- How to get planting materials on time
- To know the demand for OFSP in Tanzania and how long
- To get knowledge on various issues on OFSP
- To learn more and acquire new skills and knowledge
- I expect that the goals and plan of this course to be met

- To know OFSP production
- Know many products from OFSP
- Making OFSP a business
- To get enough knowledge about production and processing of OFSP
- I am expecting to gain a full knowledge and understanding about OFSP value chain that will enable me to engage myself in entrepreneurial perspective
- To learn more about OFSP
- To gain skills on how to up-scale OFSP in my home country
- To make professional friends
- To know the demand for the OFSP in Tanzania and how long will demand match the supply
- Value chain of OFSP

Fears

- To get the knowledge and fail to implement or fail to reach the expectations because sweetpotato is not given priority in the districts
- Will the products be accepted? Kwa sababu ukila viazi gesi inakuwa nyingi kwa tumbo
- Sustainability of RAC OFSP initiatives – production and demand
- Awareness of OFSP knowledge in our East and Central African countries
- Time may be short to cover everything.
- Program running to Friday 30th when we are travelling back
- I fear that the time allocated for the whole course may not be enough provided that a lot of matters has been covered
- Time is not enough because I want to know each and everything about sweetpotatoes
- Given the hand-out manual is a bit bulky – I am not sure if we will cover it all in 10 days
- Time to cover all topics effectively and timely
- The course may not be properly covered due to time lag in starting (time management)
- Will time be enough to cover the timetable content thoroughly?
- 10 days are not enough to learn production, value chain, processing, nutrition
- We are adults. I do not know how much pocket money should be offered.
- Though the days are many, my fear is that we may be carried away by this length of time and do things slowly thus end up being time barred
- I fear I may miss out on the activities of 30th November due to conflict in time between flight and the day's activity.
- Kujuwa OFSP
- Too long training
- Adhering to adult learning methodology takes a whole day
- Time may be short for other topics to be covered efficiently
- The course may be too short to capture all what is intended to be delivered
- Value chain is long and very important and practical. I do not think that we can finish in the days we have.
- The course content might not be covered as planned.
- Transportation and accommodation facilities
- I am not sure if the course will fulfil the problems of Vitamin A deficiency because of the policy of the country
- The local government – they don't know the importance of OFSP
- I am wondering whether we shall get a certificate for the course
- Slow adoption of OFSP technologies among the community
- A long time to be taken – many years for the OFSP to be properly grown in many areas within our country
- In some areas they have never seen OFSP
- Low investment in OFSP to all stakeholders into practices
- Education to farmers in rural areas not well addressed

Appendix 6: Participants Action Plans

Name	Gender	Organization	Reasons for taking course	Plan after completion	Name of planned course	Start date of course	End date	Target Audience	Challenges/barriers to address	Expected outcomes	No. of people to train	Training support team	Tentative source of funding
Festo Seheye	Male	Mati Ilonga Training Institute-Kilosa	Acquire knowledge on everything about sweetpotato (OFSP)	Incorporate OFSP in root and tuber syllabi for my students, multiply planting materials	Root and tuber crops production	Feb-13	May-13	Certificate and Diploma students	Drought and availability of enough planting materials	My students will practice and teach farmers production and utilization of OFSP	170 Certificate and 27 Diploma students	Department of crop science members	Principal- Mati Ilonga - Kilosa
Dominick E Pingo	Male	RECODA- Research, Community & Org. Dev. Associates											
Winza Amos Nzaga	Male	Ministry of Agriculture Training Institute- Ukiriguru	Expanding the knowledge on sweet potato	Utilize the knowledge by training others and practice in one of the areas taught	Understand sweet potato the OFSP variety	10/12/2012	15/12/2012	Students from MATI-Ukiriguru, Agricultural extension officers, fellow tutors	Costs, convenient dates, OSFP variety and clean plant material availability	Awareness of OFSP in MATI-Ukiriguru	80	Extension and catering officers	Donors
Laurian Lameck	Male	SUGECO	Learn about SP production, marketing and importance of the product	Take the course in an entrepreneurial way and reach trainees	SP production, vine multiplication and market value chain	4/2/2013	7/2/2013	Extensionists and big farmers of SP	Lack of flexibility, funding resources, poor marketing facilities/storage mechanism	They will train more farmers on OFSP	10	Production and management facilitator, post harvest person,	CIP, RAC, Government of Tanzania
Julius Mwinuka	Male	SUGECO	Sensitize on the importance of OFSP to different stakeholders	Create awareness and train on OFSP	Nutritional and economic benefits of OFSP	16/01/2013	18/02/2013	Extensionists and nutritionists	Lack of knowledge on OFSP, nutritional and economic benefits of OFSP	Awareness generation	10-30 people	TAPP, RAC, NGC	

Elizabeth Peter Mpayo	Female	Ministry of Agriculture Food Security & Cooperative	Help in OFSP production and to teach others	Train others about production of OFSP	OFSP production for food security, income generation and health	7-Jan	14-Jan	Economists, Traders, NGO's, farmers, teachers, village and ward executive officers	Seed multiplication, marketing value addition, diseases and pests, gender issues, storage	Skilled people and high production of OFSP	100-150	Nutritionist, economist, community development officer, cooperative officer	CIP, DED(DALDO), NGO's
Charles M Sagenge	Male	T.A.H.E.A-Tanzania	Improve knowledge on sweetpotato production and use of vitamin A and products	Train other stakeholders on OFSP growing and eating	Zalisha zaidi viazi lishe ili uongeze kipato na kupata vitamin A	15-Dec-12	15-Jan-13	NGOs, extension officers, government leaders, stakeholders		Planned stakeholders to achieve the knowledge	100	TAHEA, Health, medical and development officers.	RAC, CIP, DED/DALDO
Yusuph Mohamed	Male	Temeke Municipal Council	Gaining knowledge, experience and skills on everything about OFSP	Implement crop cultivation, equip small entrepreneurs to process the SP product	SP for poverty eradication and vitamin A improvement	15-Feb-13	20-Feb-13	Farmers, extensionists, entrepreneurs, nutritionists and researchers	Financial resources, willingness of participants, demonstration plots for practical approach	Understanding better issues relating to SP	15	Entrepreneurs, Researchers and extensionists	NGOs, Government agencies, RAC-CIP and private institutions
Akida Ignas Meya	Male	Ulanga District Council	Understand everything about OFSP	Conduct TOT course to extension officers	OFSP cheap and affordable solution to vitamin A deficiency problems	10-Jan	28-Jan-12	Agricultural extension officers, nutritionists, food scientists, community development officers ,food processors, NGOs	Funds and availability of training materials	Increase awareness on OFSP nutritional value, increased consumption and production of OFSP	87	District nutrition officer, economist, community development officer	District council, Ministry of agriculture, Mwanzo bora project, CARITAS-MAHENGE DIOSSIS

Edith Munganyinka	Female	Africare	Improve knowledge on sweetpotato, conduct training	Organization of a TOT at cooperatives of PLWA	Everything you have ever wanted to know about sweetpotato			Management committees of cooperatives, field agents	Insufficient clean planting material and knowledge in food processing, behaviour change in using SP units	Participants will know how to get cleaned planting materials, identify viruses and diseases	25	Nutritionists, Agronomists	
Ihuya M. L. Zephania	Male	Kimkumaka	Gaining knowledge and skills on OFSP aspects and train others	Train others on aspects of OFSP	Trainers capacity building on OFSP	Dec-12	Feb-13	Agricultural extension officers, community development officers , NGOs	Funds and resources for conducting the training	Improve knowledge and skills of participants	50-100	Skilled entrepreneurs, nutrition and marketing officers, community and social workers	DED/DALDO, NGOs, RAC,
Mary Mkunde Bonaventure	Female	Regional Administrative Secretary Office - Dodoma	Acquire knowledge on OFSP, educate regional and district teams	Create awareness on orange fleshed sweetpotato	Sensitization on OFSP to the regional secretariat team and 3 LGAs in Dodoma region			Regional top officials, Regional top secretariat team, NGOs, politicians, nutritionists		importance and awareness on OFSP will be improved	70	Researchers , RAC, Nutritionists, agricultural cooperative and business officers, crop and horticulturalists	RAC, NGO, LGA, DED/DALDO, private institutions
Donald Betwala	Male	SUGECO	Understand importance of sweetpotato	Implement acquired knowledge and skills and deliver to others	Reaching agents of change training of trainers course	18-Feb-13	22-Feb-13	DED, NGOs, Extensionists, CBOs and SP entrepreneurs	Training facilities, funds	Increase awareness on OFSP, build entrepreneurial spirit to foster consumption of OFSP	20-30 people	Sokoine university team, Sugeco team	
Lucy M. Maziku	Female	DAI-IMARISHA	Learn on OFSP and sensitize partners on how to reduce VAD through production of OFSP	Conduct training on household nutritional strengthening	Household gardening and nutritional strengthening	Mar-13	Nov-14	Extension officers, TOTs, volunteers		Reduce VAD, increase incomes at household levels and increase production of OFSP	200-800 TOTs	Technical staff in our organization, extension officers	DAI-IMARISHA sharing cost with partners

Elias Lwekaza	Male	SUGECO	Acquire knowledge on potato production and value addition	Take the course in an entrepreneurial perspective and train others	Marketing and value addition	1-Mar-13	3-Mar-13	Extensionists, large farmers, traders, entrepreneurs	Poor marketing strategies, lack/ non value addition	Increase in trade volumes, value addition and profit margin to farmers	10	Entrepreneurship and marketing experts, people doing value addition	Different donors including CIP and RAC
Mariana Hermes Massawe	Female	ARI- Ukiriguru	Increase understanding on OFSP	Conduct training to extension staff and lead farmers	TOT training on orange fleshed sweet potato in the lake zone	14/1/2013	18/1/2013	Lead farmers, extension staff, local NGO's, traders, health development personnel	Source of funds, Uptake of beta carotene,	availability of clean sweetpotato materials to farmers, the intended are trained and knowledge used	25	Entrepreneur, Gender person, Marketing and value chain analyst.	CIP, RAC
Rahila Amour Mohammed	Female	ARI- Ukiriguru	Build up capacity on sweetpotato production, utilization and marketing	Train extension officers on sweet potato production, utilization and marketing	TOT training on orange fleshed sweet potato in the lake region	14-Jan-13	18-Jan-13	Extension agents, BDS, local NGOs	Financial constraints	Scale up the adoption of OFSP to combat vitamin A deficiency	25	Entrepreneurs, Extensionists, NGOs	RAC-CIP
Innocent Lwabuti	Male	RUDDO	Expanding the knowledge on value chain analysis and management	Train public sector extension on aspects pertaining to sweet potato	Promotion of sweetpotato to be an important crop	15/01/2013	19/01/2013	Ward and village agriculture extension officers	Funds availability to facilitate the course	Extension officials to be able to train farmer groups	20	District crops officer, Officer in district development office	HKI, CIP
William Sig Byabato	Male	Geita District Council	Understanding all agronomical practices involved in sweetpotato production	Disseminate the attained knowledge of SP production to farmers	Add your knowledge on sweet potato production	1-Jan	5-Jan	Agricultural extensionists, community development officers, NGOs	Combat vitamin A deficiency, funding of the project	Reduced problem of vitamin A, poverty reduction	10-15 people	District nutritionists	RAC(HKI) and CIP
Charles P Mgeni	Male	Sokoine University	Acquire knowledge on sweetpotato and train others	Participate as a trainer on the next TOT	Everything you have ever wanted to know about sweetpotato			NGOs, Agricultural officers	Importance of sweetpotato and how to disseminate the technology to farmers	Trainers will have knowledge on OFSP and teach the community	20	KIBACHA and SUA trainers	CIP

Caroline Agamala Kundu	Female	KARI-Kakamega	Better understanding of sweetpotato to become a better advocate	Promote and train others in OFSP	Sweet potato for food, income and health	17/6/13	21/6/13	Farmers, community health workers and nutritionists	perception of sweetpotato, diversity in post harvest utilization, production of clean and healthy planting material	Change of perception, commercialization and enhanced intake of OFSP	20	Sweetpotato breeders, government, post harvest specialists	RAC
Habumuremyi JMV		Duhange Cooperative	High school certificate in mathematics and physics	Updated knowledge on sweetpotato to be able to train others				Management	Insufficient planting materials	Improve the quality of sweetpotato preparation	57	CIP, RAC	
Makokha Phabian	Male	Community research in Environment and Development Initiatives	Refresher on OFSP, Avenue to access new knowledge on OFSP	Disseminate and enhance uptake and adoption of sweetpotato knowledge	OFSP for increased initiative and income generation	21/01/13	25/01/13	Farmer group representatives, AEOs, opinion leaders,	Malnutrition, income increase, entrepreneurship	Increased income generation, reduced malnutrition, tapping unexploited opportunities	45	MOA, my NGO staff, MUH	Donata, ASERICA
Isabella Kanaga Ememwa	Female	Kenya Agricultural Research Institute	Learn more about sweetpotato production	Build capacity of TOTs on various aspects of sweetpotato	Improving knowledge and skills in sweetpotato production	13-May-13	17-May-13	Extension staff, NGO staff, health workers	Stereotypes about sweetpotato, gender issues	Participants will have knowledge on various aspects of sweetpotato	20	Value addition specialist, Processor, Agronomist, Socio economist, Crop protection specialist	RAC
Busingye Justine	Female	Ibyiringiro Project Copamanya Cooperative	Acquire knowledge and skills on OFSP	Train others	TOT course on everything you wanted to know about sweetpotato	17/12/2012	21/12/2012	Community volunteers,	Insufficient planting materials, low economic status of farmers, malnutrition problem	Sufficient planting materials, improved seed production, economic and nutrition status of farmers	26	Agronomists, Nutritionists, Farmer field school agents	RAC

Stephan E. Ngailo	Male	Sugarcane Research Institute	Acquire knowledge and skills in SP production, processing and utilization	Organize, conduct and participate in training on SP	SP for food security and income	February second week		Extension officers, NGOs and CBO representatives in KBH	Time, finance/funds	Participants be able to realize the commercial and nutritional value of SP	15-20	Pathologist, Agronomists, Nutritionist, Entomologist, Economist, Gender facilitator	RAC/CIP/GoT
Salma Omar Mohammed	Female	Kizimbani Agricultural Research Institute	Improve knowledge on OFSP and its product development	Train other stakeholders on OFSP aspects and in increasing income	Plant OFSP for nutrition as well as income	20-Dec-12	1-Jan-13	Extensionists, NGOs, DVMs and other stakeholders	Availability of funds	All planned OFSP stakeholders will be trained on OFSP	50	Fellow researchers, others from Health institutes and RAC	RAC, CIP, Zanzibar government
Domina Esther Mbela Nkuba	Female	Ministry of Agriculture Food Security & Cooperative - (MATI) - Makuru	Understand everything about OFSP and promote it using skills gained	Transfer the acquired knowledge to others	Everything you have ever wanted to know about sweetpotato	7/1/2013	11/1/2013	Agricultural extension officers , students, CBO/NGO workers	Natural disasters, Filling the knowledge gap on nutritional benefits of OFSP and agronomic practices	Increased vitamin A intake, reduced child malnutrition, reduced food security	177	Social economist, Agronomist, Pathologist	RAC
Ngabo Pamba	Male	Bukoba District Council	Refresher on SP production, utilization and marketing	Train local level TOTs, venture into SP business	Knowledge on sweetpotatoes for improved health and income	21/1/13	25/1/13	NGOs, CBOs, DVMs, Extensionists, Researchers	Knowledge gap in SP production, small SP facilitators in the area	Gain knowledge on SP, Disseminate SP technologies to many partners	30	Socio economist, Nutritionist, Agronomist, Pathologist	ASARECA
Helen-Clara Kiozya	Female	Sugarcane Research Institute - Kibaha	Acquire knowledge on sweetpotato	Ensure production of sweetpotato , proper use of screen houses, available resources and processing equipment	Production and utilization of orange sweetpotato	4th February 2012	8th February 2012	Extension workers, sweetpotato stakeholders, NGO's	Reliable source of clean planting materials, Harvesting sweetpotato, Add value on processed sweetpotato	Reach the target group	20	Agronomist, Economists, Entrepreneurs, Food processors	NGO'S, CIP-RAC, individual farmers