

Strengthening the Capacity of Iraq's Agricultural Sector



Azhr Al-Haboby, Enrico Bonaiuti, Paul Gasparini,

Review of the progress and achievements in Capacity Building HSAD - Iraq program Harmonized Support for Agriculture Development 2013-2014

- Integrated pest management
- Water management
- Biotechnology
- Information and communication technology
- Livestock management
- Tools and Technologies
- Water harvesting and supplemental irrigation
- Crop-livestock production

Acknowledgements

This Working Paper summarizes the key activities and achievements of the HSAD-Iraq program Harmonized Support for Agriculture Development 2013-2014. It was compiled from reports and technical information documenting project work in sites in Southern, Central and Northern Iraq.

Core Staff in Baghdad: Paul Gasparini, Chief of Party; Azhr Al Haboby, ICARDA/HSAD Project Manager, Enrico Bonaiuti, Monitoring and Evaluation Specialist Antonio Villamor, Finance Officer Experts - Seeds: Francis Janno (National Focal Point); Zewdie Bishaw, Sushil Pandey (ICARDA Focal Point); Date Palm IPM: Hamid Hadwan (National Focal Point); Michael Baum (ICARDA Focal Point), Abdel-Sattar Ali; Date Palm tissue-culture: Michael Baum,-Saleh Bader (ICARDA Focal Point). Agricultural Policy: Mohammad Jabbar (National Focal Point), Aden Aw-Hassan (ICARDA Focal Point), Teunis Van Rheenen (IFPRI); Ag-Extension: Faisal Kadhum Mutasher (National Focal Point),-Mohammad Douglah (ICARDA Focal Point), Andrea Bohn (UCON); Conservation Agriculture: Stephen Loss (ICARDA Focal Point). Water Harvesting: Theib Oweis (ICARDA Focal Point); Livestock: Firas Muzahem Hussein (National Focal Point); Ates Serkan (ICARDA Focal Point). Editing and Compiling (ICARDA): Michael Devlin, Kelly Rain Dodge, Zeina Al-Maani and Production: Mai Touma (ICARDA).

ICARDA Working Papers document the progress of the ICARDA research program and its support to country partners in more than 40 drylands countries. Working Papers are one of ICARDA's global public goods; they capture and share knowledge and learning from projects and research partnerships. Each paper is internally reviewed as part of the center's publishing process.

ISBN: 92-9127-458-5

Keywords: Iraq, agricultural value chain, Date Palm, conservation agriculture, Crop improvement, wheat, value-added crops, supplemental irrigation, water harvesting, Iraq Agricultural Policy, smallholder livelihoods.

Feedback: ICARDA welcomes comment and feedback on this publication www.icarda.org www.hsad.icarda.org .

This publication is made possible by the support of the American people through the United States Agency for International Development (USAID). The opinions expressed herein do not necessarily reflect the views of USAID or HSAD implementing partners.



Copyright and Fair Use:

This publication is licensed for use under the Creative Commons Attribution-Non-commercial-Share Alike 3.0 Unported Licence. To view this licence, visit <http://creativecommons.org/licenses/by-nc-sa/3.0/>.

Unless otherwise noted, you are free to copy, duplicate, or reproduce and distribute, display, or transmit any part of this publication or portions thereof without permission and to make translations, adaptations, or other derivative works under the following conditions:

ATTRIBUTION. The work must be attributed, but not in any way that suggests endorsement by the publisher or the author(s)

NON-COMMERCIAL. This work may not be used for commercial purposes.

SHARE ALIKE. If this work is altered, transformed, or built upon, the resulting work must be distributed only under the same or similar license to this one.

International Centre for Agricultural Research in the Dry Areas (ICARDA), PO Box 114/5055, Beirut, Lebanon

Contents

1. Executive Summary
2. Training Course Profiles
 - 2.1 Integrated Pest Management Courses
 - 2.2 Water Management Courses
 - 2.3 Biotechnology Courses
 - 2.4 Information and Communication Technology Courses
 - 2.5 Capacity Building Courses
 - 2.6 Livestock Management Courses
 - 2.7 Tools & Technologies Courses
3. Annex
 - 3.1 List of Attendees
 - 3.2 Courses Evaluation
 - 3.3 Material

1. Executive Summary

Approximately 2,000 participants received training under the project for Harmonized Support for Agriculture Development (HSAD). The project is a research for development initiative that aims to improve the competitiveness of selected Iraqi agricultural/ agribusiness value chains and raise incomes.

Trainings reflected the main objects of the HSAD project: improving extension, developing new policies, rules and regulations, testing, validating and distributing new technologies and promoting innovative farming practices.

Thirty-seven trainings resulted in certificates. The number of participants that received certificate training under the HSAD project is 1,310, including 203 women and 69 youth. These trainings, which spanned a great range of topics, are reflected in this document.

The workshops took place throughout Iraq, including in Baghdad, Basra, Erbil, Karbala, Najaf, Kirkuk, Dohuk, and more. Farmers, government officials, extension officers, and residents of rural communities all participated in HSAD trainings.

Twenty-five participants were trained in the development and implementation of integrated pest management against disease, including the production and use of bio-pesticides to control date palm pests. One hundred and fifty-one participants attended five different trainings to gain knowledge about nematode disease on wheat, including prevention and how to fight it if crops get infected.

Recognizing that water management is a critical topic for Iraq, 118 participants attended four different trainings related to modern irrigation techniques.

Seventy-four participants took place in three biotechnology date palm trainings. These trainings discussed the steps of date palm tissue culture via somatic embryogenesis, disseminated various scientific concepts related to the proliferation of palm tissue culture, and provided additional information.

Certificate trainings also focused on improving communication and technology skills. Two workshops with a total of 62 participants discussed the creation of a new Iraq extension website. In rural communities, 54 youth participated in trainings to improve their knowledge of computers and ability to use the Internet. Seventy-eight participants attended two different workshops focused on providing the tools and knowledge for the participants to establish regulations related to agriculture.

Two different workshops concentrated on providing a total of 55 participants the tools to establish and/or implement law and regulations related to agriculture. Another training provided 20 participants a general idea of monitoring and evaluating USAID programs. Fifty-five agricultural extension agents attended a workshop to develop their overall capabilities.

Thirty-four shepherders gained the knowledge needed to artificially stimulate the sheep to breed off the regular breeding season in one workshop. Two trainings with a total of 85 participants focused on successfully raising fish. Sixty-two women participated in four trainings learning how to keep bees.

Conservation agriculture was discussed in a number of trainings. Fifty-one participants attended a workshop on the purification of seed production fields. Two different trainings informed 29 participants on how to transform agricultural wastes to organic fertilizers.

HSAD is led by ICARDA with the government of Iraq, a consortium of U.S. universities led by the University of Illinois (UC Davis, Texas A&M, University of Florida), and International Food Policy Research Institute (IFPRI). The project is supported by USAID.

2. Training Course Profiles

2.1 Integrated Pest Management

Date Palm Integrated Pest Management Workshop

Date: 31 June – 1 July 2013 (Basra)

Partners: Ministry of Agriculture

Description

Basra is considered the major date palm growing province in Iraq and great need exists for improved agricultural practices. The trainer explained the major date palm diseases in the region. An overview of local and imported types of bio-pesticides was provided along with effective and safe application methods. A historical perspective of date palm cultivation in Iraq was presented the first day. The design and cultivation of palm orchards, along with service and fertilization, was also discussed. The second day included a discussion on plant tissue culture theory and practice. Participants also visited a private laboratory.

25 participants attended the program.

Outputs

- Development and implementation of IPM against date palm disease, including the production and use of bio-pesticides to control date palm pests.

Expected Outcomes

- Discussion on integrated pest management and its importance in reducing the infections of date palm orchards and the minimized use of chemical pesticides.
- Dialogue on the effect of date palm stem borers and how to reduce it by using light trap and bio-pesticide.
- Investigating integrated control for lesser date moth or date palm by using the biological agents.

Format: Two-day training.

Course Documentation: Date Palm Field Gen Bank; Data palm TC ICARDA; Bioreactors



Participants listen to presentations during the Date Palm Integrated Management Workshop

Extension Program on Combat of Nematode on Wheat

Date: 22-23 May 2013 (Salah Eldin Aldour Farm)

24-25 May 2013 (Salah Eldin Aldour Farm)

26-27 May 2013 (Salah Eldin Aldour Farm)

29-30 May 2013 (Salah Eldin Aldour Farm)

Partners: Agriculture Engineering Union and Ministry of Agriculture

Description

The general objective was to introduce farmers and other participants the causes, prevention, and methods of fighting the nematode disease on wheat. A detailed explanation of the disease was given the first day, followed by an explanation of its environmental and economic impacts. The second day discussed the effect of nematode disease on roots and methods of fighting the disease.

115 participants attended the four different trainings.

Outputs

- Farmers are provided the tools and knowledge about Nematode disease, including prevention and how to fight it if crops get infected.

Expected Outcomes

- Increased knowledge of the nematode disease, including the cause.
- Details on tools to combat the disease and prevent its spread.

Format: 2 days training.



A trainer presents knowledge about Nematode disease

Extension Program on Visits for Farmers and Extension Staff - Exchange of Expertise among Provinces of Iraq Karbala Extension Center

Date: 15-16 May 2013 (Karbala)

Partners: Ministry of Agriculture

Description

The general objective of the workshop was to introduce to Karbala farmers and other attendees to the Nematode disease, what are its causes, and how to prevent it or fight it if the crops got infected. In addition the workshop explained the consequences of the crop infected by Nematode to the farmers.

36 Participants attended this program.

Outputs

- Karbala farmers gained knowledge and expertise on nematode, its causes, and how to fight it.

Expected Outcomes

- Due to this training, it is expected that there will be an increase in crop yield with reduced costs.

Format: 2-day training.

2.2 Water Management

Irrigation Systems and Water/Salinity Management

Date: 3-6 March 2014 (Erbil)

Partners: Ministry of Agriculture, Ministry of Agriculture and Water Resources, UCON

Description

Training was provided on irrigation systems, including drip, sprinkler (excluding center pivot), and furrow/flood. The advantageous and disadvantageous of each and important considerations of their purchase, design, and operation was discussed. Trainers presented crop water requirements with the goal of helping obtain the best results while using the lowest amount of water. Irrigation water quality standards were discussed on the final day, including how to understand soil and water laboratory analysis reports and the important of salinity management.

35 participants attended the program.

Outputs

- The types of modern irrigation techniques were clarified to farmers allowing the lowest amount of water, which is especially important in drought conditions.

Expected Outcomes

- Improved knowledge of crop water requirements, including when to irrigate and how much water to apply was addressed.
- The different types of modern irrigation techniques were discussed.
- Information was provided on irrigation water quality standards and salinity management.

Format: Four-day training.

Course Documentation: Irrigation and Water Management; Irrigation Terminology (IWM); Livingston Soil Field 1; Livingston Soil Field; Livingston Water; Salinity Data Anbar; Sprinkler Precipitation; Water Analysis; Worksheet 1 Reading Soil Moisture



A trainer leads a discussion on irrigation systems

Iraqi Irrigation Training Program – Center Pivot Irrigation

Date: 3-5 November 2013 (Erbil)

Partners: Ministry of Agriculture & Ministry of Agriculture and Water Resources

Description

The workshop presented an overview of center pivot irrigation systems, important considerations in the purchase and operation of pivots, and how to ensure the most efficient use of water with pivots. Participants learned how to understand and use a pivot printout. An overview of chemigation, which is the application of fertilizers and agricultural chemicals through irrigation systems, was presented to participants. Soil moisture management, including how to read, interpret and use soil moisture sensors for irrigation scheduling, was discussed. The training also covered how to establish, monitor, and evaluate efficient center pivot irrigation demonstrations. Supplies and materials for establishing pivots were made available to select students for establishing their own demonstrations.

35 participants attended the program.

Outputs

- Participants learned about: (1) different types of sprinkler packages available; (2) high pressure impacts; (3) medium elevation spray applicators; and (4) how to establish center pivot irrigation demonstrations.

Expected Outcomes

- Common irrigation terminology related to center pivots and irrigation water management was conveyed.
- Participants were introduced to center pivot operations, selection and management.
- As part of an extension program, how to establish, monitor and evaluate efficient center pivot irrigation demonstrations were discussed.

Format: Five-day training.

Course Documentation: Center pivot workbook; Center Pivot Worksheet 2; Conversion of Pivots to LESA; Efficiencies and Nozzles2; Forage Field Blank Graph; Units Conversion; Irrigation Terminology

Pumps for Agricultural Irrigation and Extension Methods – Working with Farmers

Date: 23-27 February 2014 (Erbil)

Partners: Ministry of Agriculture, Ministry of Agriculture and Water Resources, UCON

Description

The overall goal of this training was to educate ministry of agriculture personnel about different types of irrigation pumps and their uses in agriculture . Participants learned how to establish effective working relationships with farmers, how to develop high impact extension programs, and how to document the results. Participants were briefed on the advantages and disadvantages of different irrigation pumps and the data needed for proper pump selection. The need to understand irrigation pumping hydraulics, correctly size storage tanks and other components, use manufacturer’s literature to find a pump, and more was discussed.

30 participants attended the program.

Outputs

- Ministry personnel and extension professionals learned how to (1) establish effective working relationships with farmers; (2) develop high impact extension programs and on-farm demonstrations; and (3) document the results.

Expected Outcomes

- Participants are able to assist farmers in pump selection and sizing, including ways to reduce the cost of pumping and how to troubleshoot common pumping problems.
- Participants learned how to develop effective extension programs serving the needs of farmers.

Format: Five-day training.

Course Documentation: Evaluation of Program Success and Telling Others; Use of Local Groups and Local Leadership in Setting Priorities; Planning for Educational Outreach; Use of Local Groups and Local Leadership in Setting Priorities; Use of Local Groups and Local Leadership in Setting Priorities; Erbil Training Outline; Introduction to Irrigation Pumps; Irrigation Terminology Pumps



Ministry of Agriculture personnel learn about different types of irrigation pumps and their uses.

Extension Program & Field Training on the Use of Renewed Energy & Desalination of Water Irrigation Systems in Vegetable Crops in Desert Areas

Date: 16 May 2013 (Najaf)

23 May 2013 (Najaf)

Partners: Agriculture Engineering Union

Description

The purpose of this training was to educate farmers on how to better manage water, which is an essential and scarce resource. Problems and solutions related to water management were discussed with participants, and trainers discussed how to overcome these problems with modern technologies, including irrigation systems, water desalination plants, and other options. A dialogue on the better use of renewed energy in agriculture also occurred.

38 farmers participated in the two workshops.

Outputs

- Farmers are provided the tools and knowledge to tackle issues related to water management, renewed energy, and the desalination process

Expected Outcomes

- Increased knowledge of water management, renewed energy, and the desalination process.
- Better use of water resources when growing crops.

Format: 1 day training.

Course Documentation: PowerPoint presentation: Extension Program and Field Training on the Use of Renewed Energy and Distillation of Water Irrigation Systems in Vegetable Crops in Desert Area (Arabic).

Extension Program on Modern Irrigation Technologies

Date: 1-5 June 2013 (AlShatra Farm – Thi Qar)

Partners: Ministry of Agriculture

Description

The purpose of this workshop was to introduce different types modern irrigation technologies to the farmers that will result in water savings. Trainers compared new technologies to old ones. The benefits of modern irrigation technologies were explained, along with maintenance. The goal was to instill in farmers the ability to identify any problems with the irrigation systems and have the tools to solve them.

17 participants attended this workshop.

Outputs

- Increased knowledge of modern day irrigation systems, including the skills to: (1) use and identify different types of irrigation systems; (2) better understand the benefits of these systems in comparison to the old systems; (3) identify and resolve problems related to these systems; and (4) utilize these systems should water resources become scarce.

Expected Outcomes

- Increased crop yields due to better management of resources, particularly water.

Format: Five-day training.

2.3 Biotechnology

Date Palm Culture and Biotechnology Workshop

Date: 12-16 May 2013 (Basra)

Partners: Ministry of Agriculture

Description

The first two days of this training discussed plant tissue culture theory and practice and investigated date palm micropropagation via somatic embryogenesis. A discussion also took place on germplasm biodiversity and the conservation of date palm. During the fourth day, participants learned about bioreactors and automation in date palm micropropagation. The final date included a talk on date palm biology, domestication, agronomy, and cultivars.

38 participants attended the program.

Outputs

- Comprehension of the steps of date palm tissue culture via Somatic Embryogenesis.

Expected Outcomes

- Identify the plant tissue culture theory and practice.

Format: 5-day training.

Course Documentation: Date Palm Field Gen Bank; Date palm TC ICARDA; Bioreactors



Participants of the Date Palm Culture and Biotechnology Workshop

Public-Private Partnership (PPP) for Agribusiness Development in Date Palm Tissue Culture

Date: 18-19 May 2014 (Basra)

Partners: Ministry of Agriculture

Description

The purpose of this workshop was to disseminate knowledge o palm tree propagation by tissue culture to maintain the qualities and to ensure the purity of the meta- type. Rare species of date palms have not been given excellent cuttings. In order to meet the needs of farmers and allow crop expansion to new areas, the development of tissue culture in this field has been vital.

24 participants attended this workshop.

Outputs

- Dissemination of scientific concepts related to the proliferation of palm tissue culture.

Expected Outcomes

- Participants will gain updated scientific concepts related to palm propagation methods and modern methods to improve crop quality and quantity.

Format: Two-day training.

List of material provided: Aswan

Visit Program of International TC Experts in Al-Basrah TC Laboratory

Date: 22 February - 4 March 2014

Partners: Ministry of Agriculture

Description

The purpose of this workshop was to establish Tissue Culture lab in Al hartha Experiment Station, including the training of staff for the operation of the lab. Participants learned how to prepare the medium, plant acclimatization, and the date palm micropropagation procedure.

12 participants attended the workshops.

Outputs

- The staff at the tissue culture lab at Basra was trained on date palm technology.

Expected Outcomes

- Establishment of station and training of staff.
- Tissue cultures contribute to raising the productivity of the plant and increase the percentage of germination and improve its properties.

Format: 11-day training.

Course Documentation: Tissue-lab Manual



Participants of the workshop experiencing hands-on learning

2.4 Courses Related to Information and Communication Technology

Information and Communication Technology (ICT) Extension Workshop, Part I

Date: 3-5 November 2013 (Erbil)

Partners: Ministry of Agriculture and Ministry of Agriculture and Water Resources

Description

The general objective of the workshop was to raise awareness of present ICT applications in Iraq, highlight the potential use of modern ICT tools and devices, and explore the possibility to immediately implement selected ICT tools to improve the delivery of extension programs in Iraq.

31 participants attended the program.

Outputs

- Participants spent a considerable amount of time at the workshop developing a new Iraq extension website, including discussing specific technical and logistic issues that arise in the initial development phase, developing a process to ensure content of the new website addresses stakeholder's needs, and devising a method to rigorously review and scrutinize content before web posting.

Expected Outcomes

- Iraq extension workers gained knowledge and skills related to website development.
- A robust and vigorous content review process to ensure that information on the website is credible, correct, and useful was developed.

Format: 3-day training.

Course Documentation:

- Information and Communication Technology for Extension

Information and Communication Technology (ICT) Extension Workshop, Part II

Date: 16-20 February 2013 (Erbil)

Partners: Ministry of Agriculture and Ministry of Agriculture and Water Resources, UCON

Description

The general purpose of the workshop was to move forward and develop the Iraq extension website. Objectives included developing a process for website management, fine-tuning website contents and design, and ensuring that the website will be ready to be launched at the end of May. This was a follow-up to the previous ICT extension workshop that was conducted in November 2013.

21 participants attended the program.

Outputs

- Review of progress since the first ICT extension workshop that was conducted in November 2013.
- Participants spent a considerable amount of time at the workshop developing a new Iraq extension website, including discussing specific technical and logistic issues that arise in the initial development phase, developing a process to ensure content of the new website addresses stakeholder's needs, and devising a method to rigorously review and scrutinize content before web posting.

Expected Outcomes

- Iraq extension workers gained knowledge and skills related to website development.
- A robust and vigorous content review process to ensure that information on the website is credible, correct, and useful was developed.
- Participants agree to develop a process allowing specialists within the Ministry of Agriculture and Universities to review materials before posting on the website.
- It has been recommended to form a website committee to oversee and approve posting materials on the website.

Format: 5-day training.



Participants of the ICT Extension Workshop, Part II

Extension Program on Learning Computer for Rural Junior and Youth

Date: 19-23 May 2013 (Maissan/Al Kahla)

Partners: Ministry of Agriculture

Description

The purpose of this training was to teach youth in rural areas computer literacy and advance their knowledge in the growing technological era.

31 participants attended the program.

Outputs

- Youth will have the knowledge to use computers and explore the Internet.

Expected Outcomes

- The knowledge gained by the youth will assist them in the future to work towards further developing their technological skills, allowing them to benefit both personally and professionally.
- Participants gained knowledge of: (1) computer hardware; (2) computer software; (3) operating systems; (4) general basic computer knowledge, such as creating files and folders; and (5) using the Internet.

Format: 5-day training.

Extension Program on the Use of Computer and Internet for Rural Junior and Youth

Date: 2-3 June 2013 (Nainawa/AlHamadania Farm)

Partners: Ministry of Agriculture

Description

The purpose of this training was to teach youth in rural areas computer literacy and advance their knowledge in the growing technological era.

24 participants attended the program.

Outputs

- Youth will have the knowledge to use computers and explore the Internet.



The young participants of the workshop

Expected Outcomes

- The knowledge gained by the youth will assist them in the future to work towards further developing their technological skills, allowing them to benefit both personally and professionally.
- Participants gained knowledge of: (1) computer hardware; (2) computer software; (3) operating systems; (4) general basic computer knowledge, such as creating files and folders; and (5) using the Internet.

Format: 2-day training.

Video Production Course

Date: 29 September- 10 October 2013 (Basra)
1-12 December 2013 (Erbil)

Partners: Ministry of Agriculture, Ministry of Agriculture and Water Resources, Directorate of Agricultural Research, Ainkawaand

Description

The purpose of this workshop was to teach participants how to handle the camera and edit video programs targeting farmers.

48 participants attended the program.

Outputs

- Participants learned how to outline scripts, interview farmers, handle the camera, and edit video programs targeting farmers.

Expected outcomes

- Improved video production skills of all participants.

Format: 32-day program.



A participant learns during the Video Production Course

2.5 Capacity Building

Rapid Policy Impact Implementation Meeting Among Stakeholders

Date: 31 March – 2 April 2013 (Baghdad)

Partners: Ministry of Agriculture

Description

This workshop was for different stakeholders (researchers, national institutions, private sectors, farmer unions, and policy-decision makers) in order to develop direct and immediate steps needed for the implementation of agricultural policies for five important areas specified in the USAID supported HSAD project. This workshop is part of the analysis of policy and institutional interventions component activities that is designed to have rapid and long terms impacts on agriculture sector and the livelihoods of farming communities.

62 participants attended the workshop:

Outputs

- Provide the tools and knowledge for the participants to establish and/or implement law and regulations related to agriculture.

Expected Outcomes

- New laws and regulations set to improve agriculture in Iraq. Regulations for the Iraqi “Certified See Production” law have been finalized and are awaiting approval.

Format: 3-day training.

Policy Workshop

Date: 18-19 June 2013 (Amman, Jordan)

Partners: IFPRI

Description

The main objectives of the workshop was to identify key constraints for agricultural growth, to discuss the data and information needed to develop evidence-based policy reform options for relaxing these constraints, and to identify the specific support that is most needed by Iraqi officials to contribute to the development and implementation of evidence-based policy reforms for agricultural growth.

16 participants attended this workshop.

Output

- The workshop resulted in the decision to hold a weeklong policy-oriented economic modeling training course.

Outcome

- This work is project to result in improved decision-making in Iraq.

Format: 2-day program.



Participants of the Policy Workshop

Value Chain Training Course for Wheat and Date Palm

Date: 8-10 October 2013 (Erbil)

Partners: Ministry of Agriculture

Description

The objective of this workshop was to learn the concept and methodology of the value chain in order to develop agricultural policies for wheat and date palm.

34 participants attended the workshop:

Outputs

- Training participants to perform studies and analysis for agricultural production allowing the formulation of successful policies in course of development.

Expected Outcomes

- Participants were provided a general idea about how to analyze agricultural production through the various stages.

Format: 3-day training.

Linkage between Universities, Research in MoA WR and Extension in IKR

Date: 20 May 2014 (Erbil)

Partners: Ministry of Agriculture, Ministry of Agriculture and Water Resources, Directorate of Agricultural Research

Description

The purpose of this workshop was to introduce participants to models linking universities with the research and extension functions of the Ministry. The necessary steps to be taken to operationalize such linkages were discussed.

37 participants attended this workshop.

Outputs

- A working paper containing conclusions and recommendations of the workshop was produced, which can be used as guide for farther action.

Expected Outcomes

- Improved relationships between university staff, researchers, and extension workers in the Ministry, which may result in practical research findings and extension practices that can contribute to more efficient adoption of practices by farmers.

Format: 1-day training.

Courses Documentation: Linkage between Universities, Ministry of Agriculture and Water Resources

Baseline Survey for Researchers and Enumerators

Date: 1-3 December 2013 (Basra)

Partners: Ministry of Agriculture

Description

The primary objectives of this training are: (1) to provide an introduction to the importance of baselines; (2) to introduce the questionnaires forms (Wheat, and Date Palm) and modify them according to research requirements through discussion and consultation process with HSAD Partners; and (3) to discuss and get consensus on the baseline survey road map.

21 participants attended the workshop.

Outputs

- Participants gained a general idea of baseline surveys and are able to gather information from farmers for this purpose to help develop agriculture related to wheat and date palm.

Expected Outcomes

- Specific outcomes include a questionnaire form for date palm and a survey road map.

Format: 3-day training.

Course Documentation: BLS course introduction and BLS ROAD MAP I



Baseline survey workshop participants having a lively discussion

Building Capacities of Agricultural Extension Agents

Date: 18-22 August 2013 (Erbil)

Partners: Ministry of Agriculture and Ministry of Agriculture and Water Resources

Description

The training spent a considerable amount of time on the development of leadership skills, including psychological and social attributes of agricultural engineers.

55 participants attended the program.

Outputs

- Participants drew up a plan of action that the professionals can follow to develop their capabilities and improve the agriculture sector.

Outcomes

- The capacity of national team leaders/coordinators to plan agricultural extension programs was improved.

Format: 2-day training.



A trainer presents to agriculture extension agents

Baseline Survey Training Course

Date: 1-5 September 2013 (Erbil)

Partners: Ministry of Agriculture and Ministry of Agriculture and Water Resources

Description

The primary objectives of this training are: (1) to provide an introduction to the importance of baselines; (2) to introduce the questionnaires forms (Wheat, and Date Palm) and modify them according to research requirements through discussion and consultation process with HSAD Partners; and (3) to discuss and get consensus on the baseline survey road map.

34 participants attended the program

Outputs

- Trainees gained a general idea of baseline surveys and are able to gather information from farmers for this purpose to help develop agriculture related to wheat and date palm.

Expected Outcomes

- The capacity of national team leaders/coordinators to be able to use and improve the questionnaire was enhanced.

Format: 5-day training.

Course Documentation: Wheat Farm-Household Questionnaire Instrument and The Agriculture Strategy (Arabic Version)

Performance Monitoring and Evaluation (PME) Training Course on Seed Technology and Related Agricultural Inputs

Date: 1-3 December 2013 (Basra)

Partners: Ministry of Agriculture

Description

The primary objective of this training course was to deliver information to component leaders of HSAD New Work Plan activities on how to measure and evaluate the performance of their farm activities using USAID PME system set up. Additionally, participants were trained on how to identify measurable indicators for the four activity components of the new (reduced) work plan (March 2013 - March 2014) to guide HSAD Baseline survey on seed and seed technology focused on wheat.

20 participants attended the program.

Outputs

- Participants gained a general idea of monitoring and evaluating USAID programs from the purpose of developing the skills of trainees so that they can evaluate and follow-up in the future.

Expected Outcomes

- Knowledge of monitoring and evaluating USAID programs was delivered to participants.

Format: 5-day training.

2.6 Livestock Management

Extension program on Improving the Reproduction Efficiency and Sheep Production Increase by the Use of Estrus Synchronization

Date: 22 May 2013 (AlRashidiya Farm – Baghdad)
29 May 2013 (AlShafiyia Farm – AlDiwaniya)

Partners: Ministry of Agriculture

Description

The purpose of the training was to introduce new breeding methods for sheep outside the normal breeding season, which will result in better management of the herd, better management of food disbursement, and control of the herd. The trainer explained in detail the process of improving the reproduction efficiency and increasing sheep production by using estrus synchronization.

34 participants attended the two workshops.

Outputs

- Sheep-herders gained the knowledge, tools, and skills needed to artificially stimulate the sheep to breed off the regular breeding season.

Expected Outcomes

- Better-controlled and managed sheep herds.

Format: 1-day training.



Participants of the workshop experiencing hands-on training

Extension Program on Fish Production by Closed System

Date: 21-23 May 2013 (AlMuthana/AlNajmi)

Partners: Ministry of Agriculture

Description

The purpose of this workshop was to introduce the financial feasibility of fish production in closed systems. The financial rewards from running a small business, in addition to the economic and agricultural benefits, were also demonstrated. The workshop introduced to the farmers the obstacles faced with fish production in closed systems and how to overcome these problems in addition on how to maximize production and profit at lower cost.

43 participants attended the program.

Outputs

- Fish producers learned how to maximize their production at low cost and gained financial knowledge on the operating cycle of fish production business in closed systems.

Expected Outcomes

- The knowledge gained will allow fish production within closed systems to improve in Iraq with various types of fish, minimal environmental impact, low costs, and increased profits.
- Development of a robust and vigorous content review process to ensure that information provided to the farmers be utilized to its maximum potential under the current circumstances in the country.

Format: 2 days training.



Learning about fish production in closed systems

Extension Program on Fish Diseases by Floating Cages

Date: 21-23 May 2013 (Baghdad/Al Rashidiya)

Partners: Ministry of Agriculture

Description

The training introduced types of fish disease and their causes. It also explained the early warning signs that fish farmers must look for in order to avoid the disease progressing and infecting other fish. The workshop explained in detail how to take precautionary measures to avoid the fish getting sick. How to isolate and treat infected fish was also discussed.

42 participants attended the two workshops.

Outputs

- Transfer of knowledge and tools to detect fish disease, its cause, and cures.

Expected Outcomes

- Fish production will be improved with minimal cost.

Format: 3-day training.

Extension Program on Bee Keeping

Date: 21-24 May 2013 (Maisan/AlKahla Farm)
28-30 May 2013 (Babel/Al Mihanawiya Farm)
28-30 May 2013 (Baghdad/Al Rashidiya Farm)
11-13 June 2013 (Wasit/Tajidee)

Partners: Ministry of Agriculture

Description

The purpose of this workshop was to provide women in rural areas the knowledge and skills of bee keeping. The necessary tools were provided to the women.

62 women participated in the four trainings.

Outputs

- The following knowledge was transferred to participants: (1) the ability to identify each type of bee in a hive; (2) the ability to identify all sections of a hive; (3) familiarity with a bee-keeper suit and tools; (4) knowledge of all bee products; and (4) awareness of bee diseases and enemies.

Expected Outcomes

- An increase in bee keeping by the women, creating an additional source of income.

Format: 3-day training.



Participants of the Extension Program on Bee Keeping training

Extension Program on Bee Keeping Problems for Rural Junior and Youth

Date: 3-5 June 2013 (Kirkuk)

Partners: Ministry of Agriculture

Description

Purpose of this workshop was to provide the rural youth with skills and knowledge required for bee keeping.

14 participants attended the workshop.

Outputs

- Participants gained the following skills: (1) the ability to identify each type of bee in a hive; (2) the ability to identify all sections of a hive; (3) the knowledge of a bee keeper suit and tools; (4) the knowledge of all bee products; and (4) the knowledge of all bee diseases and enemies.

Expected Outcomes

- Rural youth will improve their self-esteem and the feeling of being independent as they become wage earners and active participants in the economic process.
- Bee keeping (honey industry) will flourish given the proper training and knowledge provided to the youth.

Format: 3-day program.

2.7 Tools & Technologies

Purification of Seed Production Fields

Date: 22-24 September 2013 (Najaf)

Partners: Ministry of Agriculture

Description

The workshop enabled farmers to discuss challenges they faced including a limited range of wheat varieties, gaps in facilities, and lack of government support for fertilizer and new machines. Participants and trainers also discussed opportunities to develop the seed sector in the country. Solutions for technical projects faced in their field were also examined.

51 participants attended the training.

Outputs

- Farmers will have the required knowledge and skills to use new technologies, including seed planting methods to increase yield.

Expected Outcomes

- Seed planting in the region will improve by using the new technologies and methodologies presented in this workshop.

Format: 3-day training.

Agricultural Waste Recycling and Production of Organic Fertilizer (compost)

Date: 29-31 October 2013 (Najaf & Muthanna Provinces)

Partners: Ministry of Agriculture

Description

The training taught farmers how to benefit from agriculture wastes (especially date palm wastes) from their farms, including how to convert these wastes to organic fertilizer (compost) as one of the IMP practices aimed at minimizing human and environmental hazards. The economic feasibility of producing organic fertilizer from agricultural waste was also discussed.

18 participants attended the workshop.

Outputs

- The participants gained the following skills: (1) the ability to transform agricultural wastes to organic fertilizers and (2) the knowledge of economic feasibility of producing organic fertilizer from agricultural waste.

Outcomes

- Agriculture will improve in the region by using organic fertilizer.
- Organic fertilizers are environmentally friendly with minimum human health hazards.

Format: 3-day training.



Participants learning about compost from trainers

Process and Quality Testing

Date: 3-4 March 2013 (Erbil)

Partners: Ministry of Agriculture, Ministry of Agriculture and Waste Resources, UCON

Description

The purification process is part of a technique designed by plant breeders and geneticists for the transfer of genetic engineering to improved seeds. This training, which targeted inspectors who oversee the operations of the purification of seeds, focused on educating participants about the purification process and all of the steps in the processing of seeds for the purposes of marketing, trading, paring, drying, cleaning, and more. The removal of impurities allows the sorting and grading according to size difference, the isolation of degraded or damaged seeds, and the addition of chemicals to protect seeds.

37 participants attended the training.

Outputs

- Participants discovered the harmful effects of impurities and the importance of separating seeds.

Expected Outcomes

- Extension workers understand the importance of separating seeds from the impurities and the multiple ways to succeed in this job.
- Availability of pure seeds to farmers, which results in improved agricultural input.

Format: 2-day training.

Course Documentation:

- Seed Preparation Techniques (Abdulaziz Ahmed)

Zero Tillage Machinery Training Course Report

Date: 4-7 November 2013 (Erbil)

Partners: Ministry of Agriculture, Ministry of Agriculture and Water Resources, Directorate of Agricultural Research, Ainkawa

Description

This training introduced participants to the basics of conservation agriculture. Participants were provided an introduction of the basic of zero tillage machinery. The development of zero tillage commercial seeders and the comparison of various seeders were discussed. Calibration issues, ground opener considerations (design features impact on draft force, fuel use, soil disturbances, time considerations, etc), seed placement, and seed furrow principles were also examined.

17 participants attended the training.

Outputs

- The identification of environmental and social benefits of conservation agriculture.

Expected Outcomes

- Participants learned the importance of conservation agriculture and the elements of zero tillage technology.

Format: 4-day training.

Course Documentation: General Agronomy ICARDA Trials; Machinery Training Course and Introduction to Conservation Agriculture



Participants learning about the machinery

Operating Mobile Seed Cleaners

Date: 4-6 August 2013 (Erbil)

8-10 September 2013 (Sulaimanya)

29 September - 1 October 2013 (Dohuk)

Partners: Ministry of Agriculture and Ministry of Agriculture and Water Resources

Description

The main goal of this workshop was train staff from the Ministry of Agriculture and Water Resources on the proper operation of the mobile seed cleaner machine. Such training will help the staff properly use the technology.

59 participants attended the three workshops.

Outputs

- Participants will be able to identify the stages of purification of seeds and the machinery used.

Expected Outcomes

- Recognize the importance of the production of high-quality, pure seeds and the use and maintenance of machines used for purification.

Format: 3-day training.

Course Documentation: Seed Cleaner Manual



Staff from the Ministry of Agriculture and Water Resources learning about mobile seed cleaner machines

Date Palm Orchards Service Workshop

Date: 30 June-4 July 2013 (Basra)
25-29 August 2013 (Basra)

Partners: Ministry of Agriculture

Description

The purpose of this course was to improve the participants overall knowledge on date palm trees, including planting and improved methods to produce numerous varieties of rare dates. The course introduced the latest scientific methods used worldwide to care for date palm trees.

61 participants attended the two workshops.

Outputs

- Participants were introduced to modern breeding methods.

Expected Outcomes

- Participants possessed an increased knowledge of how to care for date palm trees at the end of this course.

Format: Five-day training.

Course Documentation: The establishment and Cultivation of Modern Palm Gardens (Arabic Version); Palm Cultivation Modern (Arabic Version); Modern Irrigation (Arabic Version); Integrated Management of Date Palm Pests (Insect and Spiders) (Arabic Version); Biological Pests Control (Arabic Version); The Role of the Ministry of Agriculture in Palm Pest Control (Arabic Version); Handling and Storage of Dates (Arabic Version)

Extension Program On Organic Fertilizers and How To Be Manufactured In The Field

Date: 1-5 June 2013 (Al Mashtal Farm, Maisan)

Partners: Ministry of Agriculture

Description

The training taught farmers how to benefit from agriculture wastes from their farms, including how to convert these wastes to organic fertilizer (compost) as one of the IMP practices aimed at minimizing human and environmental hazards. The economic feasibility of producing organic fertilizer from agricultural waste was also discussed.

11 Participants attended this workshop.

Outputs

- The participants gained the following skills: (1) the ability to transform agricultural wastes to organic fertilizers and (2) the knowledge of economic feasibility of producing organic fertilizer from agricultural waste.

Outcomes

- Agriculture will improve in the region by using organic fertilizer.
- Organic fertilizers are environmentally friendly with minimum human health hazards.

Format: 5-day program.

Plant Breeding Training Course

Date: 20 May 2014 (Erbil)

Partners: Ministry of Agriculture, Ministry of Agriculture and water resources, Directorate of Agricultural Research, Ainkawa

Description

The purpose of this workshop was to deliver information to HSAD staff to enable them to understand and describe the general procedures of plant breeding programs. This included how to choose the appropriate breeding strategy for wheat development and introduce methodology to overcome difficulties in plant breeding.

22 participants attended this workshop.

Outputs

- HSAD staff trained on the general procedures of plant breeding programs.

Outcomes

- Recognition of symptoms and identification of the causal agents of the diseases on plants, based on macroscopic and microscopic observations.

Format: 5-day training.

Course Documentation: Guide- Nutrient Deficiency; Common- Diseases of cereals; Cereal - Cysnematodes



Hands-on learning during the Plant Breeding Training Course

3. Annexes

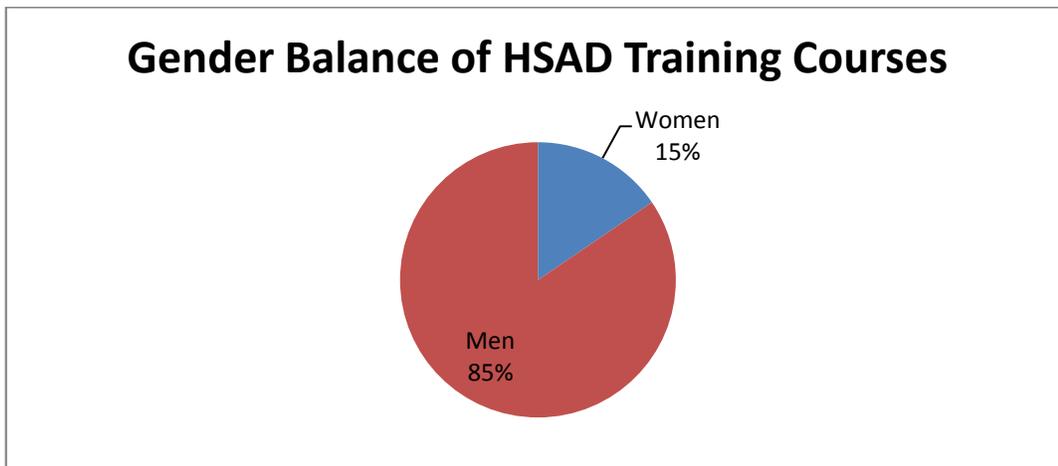
3.1 Participants

HSAD prioritizes the need of marginal populations, including the needs of women farmers.

1310 total participants

203 Female

1107 Male



Lists of Participants

Date Palm Integrated Pest Management Workshop

31 June – 1 July, 2013 (Basra)

25 Participants

14 Female

11 Male

Sq	Name	Gender
1	Mustafa al kinani	Male
2	Sana Abdullah	Female
3	Dhabyaa Mutasher	Female
4	Mohammed Al Ali	Male
5	Hayder abdukkareem	Male
6	Mohamed Jassem	Male
7	Marowa Abdullah	Female
8	Asmaa Nori	Female
9	Douaa Neaama	Female
10	Hiba Mohamed	Female
11	Thekra Faaze	Female
12	Zehra niama	Female
13	Amani abdulreda	Female
14	Sana S. Abbas	Female
15	Sura abdsatar	Female
16	Majid Abdulhameed	Female
17	Rand ghassan	Female
18	Maha Yousef	Female
19	Huda hassan	Male
20	Khadega mohammed	Male
21	Abdulhassan thyban	Male
22	Abdul adime kaduhm	Male
23	Kasem sultan	Male
24	Abdulah ahmed	Male
25	Muki ahmed	Male

Extension Program on Combat of Nematode on Wheat

22-23 May, 2013 (Salah Eldin Aldour Farm)

30 Participants

0 Female

30 Male

Organization	Number of Attendees	
Farmers	30	
Total	30	
	Male	Female
	30	0

Extension Program on Combat of Nematode on Wheat

24-25 May, 2013 (Salah Eldin Aldour Farm)

28 Participants

0 Female

28 Male

Organization	Number of Attendees	
Farmers	28	
Total	28	
	Male	Female
	28	0

Extension Program on Combat of Nematode on Wheat

26-27 May, 2013 (Salah Eldin Aldour Farm)

28 Participants

0 Female

28 Male

Organization	Number of Attendees	
Farmers	28	
Total	28	
	Male	Female
	28	0

Extension Program on Combat of Nematode on Wheat

29-30 May, 2013 (Salah Eldin Aldour Farm)

29 Participants

0 Female

29 Male

Organization	Number of Attendees	
Farmers	29	
Total	29	
	Male	Female
	29	0

Extension Program on visits for Farmers and Extension Staff Exchange of Expertise among Provinces of Iraq

15-16 May, 2013 (Karbala Extension Center)

36 Participants attended the workshop

2 Female

34 Male

Organization	Number of Attendees	
Other Institutions	8	
Private	12	
Farmers	16	
Total	36	
	Male	Female
	34	2

Irrigation Systems and Water/ Salinity Management

3-6 March, 2014 (Erbil)

35 Participants

5 Female

30 Male

1	Ronak Burhan Hamid	Female
2	Tavga Omer Othman	Male
3	Agid Ghazi Tahir	Male
4	Sattar Khurshid Tatar	Male
5	Khadija Abdulrahman Ahmed	Female
6	Chiman Muhammed Karim	Male
7	Omar Sattar Abbas	Male
8	Ihsan Haydar Aziz	Male
9	SayidGul Sayda Ali Abdullah	Male
10	Sivan Abdulqahhar Ahmed	Male
11	Sunds Ayub Tayib	Female
12	Hozan Jasim Yahya	Male
13	Derin Jaza Muhammed	Female
14	Hikmat Hama Tafiq Muhammed	Male
15	Zardarsht Muhammed Khidr Qadir	Male
16	Faisal Kadhum Mutasher	Male
17	Ali Muhsin Semari	Male
18	Talib Ghali Hemoood	Male
19	Saa'd Kurji Abid	Male
20	Emad Abdulhussein Khudheir	Male
21	Alyaa Muhi Hussein	Female
22	Musadaq Salim Abdulrazaq	Male
23	Kamil Ajeel Amir	Male
24	Ali Raheem Th'uban	Male
25	Ahmed Najah Hussein	Male
26	Sabah Abood Muhsin	Male
27	Awad Khalaf Bal'out	Male
28	Abdulkareem Yasein Khudeir	Male
29	Saa'd Shakir Jawad	Male
30	Mahir Mohammed Hussein	Male
31	Ahmed Salih Khalaf	Male
32	Jabur Salih Hassan	Male
33	Ali Hussain Alwan	Male
34	Khalil Mousa	Male
35	Aram Musafa	Male

Iraqi Irrigation Training Program- Center Pivot Irrigation
November 3 - 5, 2013 (Erbil)

35 Participants

4 Female

31 Male

1	Dr. Adel Salman	Male
2	Faisal Kahdim Mutasher	Male
3	Mohammed Saed Abduljaleel	Male
4	Mohammed Hafudh Kadhum	Male
5	Ahmed Raad Abdulhadi-	Male
6	Kameran Abdulmajeed Hassan-	Male
7	Alyaa Muhi Hussein	Female
8	Abeer Mohammed Maher Fahad-	female
9	Saed Hussein Khlaif-	Male
10	Munaf Yaheiya Dhamra-	Male
11	Husam Khalaf Kadhum	Male
12	Jalal Kamil Abid	Male
13	Dhiyaa Abdulhussein	Male
14	Emman Hussein Ali	Female
15	Muhammed Abbas Sadiq	Male
16	Hussein Issa Khalaf	Male
17	Mahdi Jundi Handal	Male
18	Mohammed Ali Othman	Male
19	Musheer Hamad Muhamad Amein	Male
20	Anwar Khder Abdul Rahman	Male
21	Taqi Aldin Muhammed Amein Karim	Male
22	Nada Marbeen Auda	Female
23	Tavga Omar Othman	Male
24	Bader Aldin Mahmud Hussein	Male
25	Shwan Mohammed Babiker	Male
26	Walee Hameed Hama Khan	Male
27	Hassan Haseeb Ashraf	Male
28	Saman Saber	Male
29	Qahar Aziz Hama	Male
30	Zeidan Yassein Salman	Male
31	Sarkawt Taha Ahmed	Male
32	Mohammed Kherlla	Male
33	Ali Hussain Alwan	Male
34	Sardar Sami	Male
35	Abdul Razaq Jabbar	Male

Pumps for Agricultural Irrigation and Extension Methods- Working Farmers
23-27 February 2014 (Erbil)

30 Participants

2 Female

28 Male

1	Dakhil Hussein	Male
2	Emad Abu Sahil Ali	Male
3	Najim Kasim Mutanish	Male
4	Ali Muhi Hussein	Male
5	Majida Ali Hussein	Female
6	Hilmi Hafudh Kadhum	Male
7	Khairi Abbas Hussein	Male
8	Ali Malih Madhi	Male
9	Falih Abbas Musa	Male
10	Majeed Hameed Ajmi	Male
11	Basim Abduljabbar Khalaf	Male
12	Alawi Rashed Alawi	Male
13	Muslim Sagban Abdulwahab	Male
14	Mazin Kareem Baqer	Male
15	Rabee' Jwehin Kenad	Male
16	Abbas Nassir Hassan	Male
17	Mahir Murad Salih	Male
18	Mustafa Salah Rahoomi	Male
19	Mohammed Ibraheem Adeeb	Male
20	Muneer Ali Kreidi	Male
21	Tara khorsheed	Female
22	Dalshad Saleh kader	Male
23	Fatah hassan fatah	Male
24	Dawode mohammed ali	Male
25	Amjed jalal hameed	Male
26	Haiman omar abdullah	Male
27	Idrees medhat mohammed	Male
28	Aalan khasro jowher	Male
29	Bahnaz ashor othman	Male
30	Ahmed jumaa samin	Male

Extension Program and Field Training on the Use of Renewed Energy and Desalination of Water Irrigation Systems in Vegetable Crops in Desert Areas

May 16, 2013 (Najaf)

19 Participants

0 female

19 Male

1	Amer Jameel Al Khilkhali	Male
2	Abid Ali Madhloom	Male
3	Adnan Jabbar Kadhem	Male
4	Jasem Waheeb	Male
5	Taha Haider Hussain	Male
6	Malik Abdel Sada	Male
7	Juma'a Abdel Sada	Male
8	Fadel Abbass Fdel	Male
9	Radhi Khafeef Dahham	Male
10	Kadhem Jabbar Balboos	Male
11	Mizhr Hassan	Male
12	Haider Saleh Haneen	Male
13	Matar Khafeef Dahham	Male
14	Maleh Abed Ni'ima	Male
15	Hussam Amer AbdelQader	Male
16	Karrar Majed Abed Ali	Male
17	Majed Radhi Khafeef	Male
18	Ali Jawad	Male
19	Salam Abdel Raheem	Male

Extension Program and Field Training on the use of Renewed Energy and Desalination of Water Irrigation Systems in Vegetable Crops in Desert Areas

May 23, 2013 (Najaf)

19 Participants

0 Female

19 Male

1	Salam Abdurraheem	Male
2	Hussam Amer AbdulQader	Male
3	Fadhel Abbass Fdel	Male
4	Maleh Abed Ni'ima	Male
5	Radhi Khafeef Dahham	Male
6	Mizher Rasem Hassan	Male
7	Taneesh Rasem Hassan	Male
8	Mutar Khafeef Dahham	Male
9	Hussain Rasem Hassan	Male
10	Mohammed Khafeef Dahham	Male
11	Jasem Waheeb Mizban	Male
12	Majed Radhi Khafeef	Male
13	Jasem Mohammed Hussain	Male
14	Haidar Saleh	Male
15	Abd AlZahra Abed Noor	Male
16	Taha Haider Hussain	Male
17	Muhsin Khalil Abed	Male
18	Abbass Saheb Khalaf	Male
19	Rasool Haider Asaad	Male

Extension program on Modern Irrigation Technologies

1-5 June, 2013 (AlShatra Farm – Thi Qar, Iraq)

17 Participants

0 Female

17 Male

1	AbdulSada Wadi Mutar	Male
2	Raheem Khudhair Abdullah	Male
3	Farag Mohammed Enad	Male
4	Dakhel Jaber Sajet	Male
5	Jalal Shamkhi Jbair	Male
6	Talib aziz	Male
7	Zuwair Aoda	Male
8	Jabbar Naeem Hadi	Male
9	Hameed Dakhel Jaber	Male
10	Azar Mazeed Hasan	Male
11	Ali Ghafel Mhaibes	Male
12	Hameed Aziz Jaber	Male
13	Ali Abdul Hussain Ahmad	Male
14	Mohammed Yas Miz'il	Male
15	Abdul Ali Naeema Abid	Male
16	Naser Najeeel	Male
17	Razzaq Naser	Male

Date Palm Culture and Biotechnology Workshop

12-16 May, 2013 (Basra)

38 Participants

8 Female

30 Male

1	Aamer salman	Male
2	Abduladim kaduhm	Male
3	Oday Abdulwahed	Male
4	Turky Kaduhm	Male
5	Mohamed jalob	Male
6	Hameed H. Salih	Male
7	Nife ali	Male
8	Waad majed	Female
9	Jumaa .KH , lessa	Male
10	Khalaf Mohammed	Male
11	Husain khalaf	Male
12	Adel faisal	Male
13	Safa abdukhaliq	Female
14	Wisam hamid	Male
15	Raad Abdul aziz	Male
16	Muhammed Mahdi	Male
17	Nada daway	Female
18	Hayder Majed	Male
19	Mazen Mohammed	Male
20	Hayder Abdulmotalib	Male
21	Abduladim Kaduhm	Male
22	Lubna Ali	Female
23	Douaa Abaas	Female
24	Sawsan Salman	Female
25	Khodair Al kinani	Male
26	Wisam Hatem	Male
27	Usama Kasem	Male
28	Hany shaker	Male
29	Mustafa farg	Male
30	Ahmed mazr	Male
31	Fatima Husain	Female
32	Rana Hameed	Female
33	Husam ali	Male
34	Adel hekmet	Male
35	Husain Khalaf	Male
36	Raad Abdulaziz	Male
37	Adel faisal	Male
38	Kalaf Mohamed	Male

Public-Private Partnership (PPP) for Agribusiness development in Date Palm Tissue Culture Basra

18-19 May, 2014 (Basra)

24 participants

10 Female

14 Male

1	Wafa Selman Ali	Male
2	Iqbal Harbbi Mohammed	Male
3	Ibtehal Ihssan Hamad	Male
4	Abbas M. Jasim	Male
5	Nori Nasar	Male
6	Nassar abdulmajeed	Female
7	Hamza Hadi Saloom	Female
8	Ahmed Mahdi Waheed	Male
9	Khoudair Al.Kenany	Female
10	Hayder Majed Hadi	Male
11	Mohamed shihab ahmed	Female
12	Mazen Maatoq Abdulatif	Female
13	Sajad Abdul Hassan	Male
14	Libna Ali Sahho	Female
15	Sawsan Salman	Female
16	Lafta Madlool Abdulwahed	Female
17	Abduladeem Kathem	Male
18	Hamed Hadi Saleh	Male
19	Hoda Abdulkareem	Female
20	Ansam Mahdi Saleh	Female
21	Hadi Hussain Qasem	Male
22	Alaa Huosain	Male
23	Laith Yahya Kaduhm	Male
24	Oday Abu alwaleed	Male

Visit Program of International TC Experts in Al- Basrah TC Laboratory

22 February- 4 March, 2014 (Basrah)

12 Participants

5 Female

7 Male

1	Haydar majed Hadi	Male
2	Lafta Madlol abdulwahed	Male
3	Thaaer Shaker rezoki	Male
4	Abduladeem Kaduhm abdul Kareem	Male
5	Kodair Motasher Taib	Male
6	Lubna Ali Saho	Female
7	Sawsan Abdul Kareem	Female
8	Ahmed Mahdi Waheed	Male
9	Souad Katai Khashab	Female
10	Hayder Kattai habib	Male
11	Hayfa Moustafa	Female
12	Ansam Mahdi	Female

Information and Communication Technology (ICT) Extension Workshop, Part I

3-5 November, 2013 (Erbil)

31 Participants

9 Female

22 Male

1	Faisal Kathem Mutasher	Male
2	Musaab Mustafa Faleh	Male
3	Noor Auof Abdul Rahman	Female
4	Ali Kathem Attallah	Male
5	Ali Jasem Jlab	Male
6	Ahmed Kishaish Haluos	Male
7	Raad Halawi Saad	Male
8	Tahseen Saaod Jaeed	Male
9	Firas Khaled Hasan	Male
10	Sabah Khalel Saleh	Male
11	Kenana Rasheed Abdulah	Female
12	Sadam Husain Eisa	Male
13	Hala Talib Abed Zaid	Female
14	Haidar Abdulsattar Abdulwahed	Male
15	Mohameed Ali Hameed Yassen	Male
16	Mourtatha Hasan Ali	Male
17	Wasan Mahdi Aashuor	Female
18	Abdulkhather Abdulkather	Male
19	Hussain Faleh Muhamad	Male
20	Auni Husain Ankoosh	Male
21	Shad Ismail Mahmud	Female
22	Husain Raheem Abdul Qader	Male
23	Aveen Ahmed Ramazan	Female
24	Handrin Sardar Khatab	Female
25	Chaivy Sidqi izadin	Male
26	Malhk Morah	Male
27	Bizhween Anwar	Female
28	Noor Nazar	Female
29	Soran Mohamed Rauf	Male
30	Ali Kathem Ali	Male
31	Jassim Skeel Ziyad	Male

Information and Communication Technology (ICT) Extension Workshop, Part II

16-20 February, 2013 (Erbil)

21 Participants

9 Female

12 Male

1	Faisal Kadhum Mutasher	Male
2	Auni Husain Ankoosh	Male
3	Noora Auof Abdulrahman	Female
4	Shaimaa Abdulrazaq Radhi	Female
5	Shua'a Ali Mohammed	Female
6	Ali Dakhil Hussein	Male
7	Hasanin Hawi Kadhum	Male
8	Bahir Juma'a Rekan	Male
9	Hala Hashim Ibraheem	Female
10	Raghad Farooq Khalil	Female
11	Wasan Mahdi Ashour	Female
12	Jasim Mohammed AbdulKareem	Male
13	Falah Mahdi Hassan	Male
14	Rwaid Ahmed Hussein	Male
15	Nahla Ulaiwi Nassir	Female
16	Abeer Akram Naji	Female
17	Uhood Abdulkareem Zahid	Female
18	Tahseen Saad Jaeed	Male
19	Sa'ad Walid Khudhair	Male
20	Musaab Mustafa Faleh	Male
21	Ahmed Mohammed Baqer	Male

Extension Program on Learning Computer for Rural Junior and Youth

19-23 May, 2013 (Maissan)

31 Participants

0 Female

31 Male

1	Mohammed Raheem	Male
2	Muntathar Ali	Male
3	Mohammed Saddam	Male
4	Hussain Jasim	Male
5	Sajjad Khalifa	Male
6	Mohammed Ali	Male
7	Rami Sahi	Male
8	Haidar Ali	Male
9	Fayadh Younis	Male
10	Kadhem Sahi	Male
11	Hassan Sahi	Male
12	Ali Ghazi	Male
13	Hussam Bader	Male
14	Hussain Jisib	Male
15	Hassan Saddam	Male
16	Hussain Dakhel	Male
17	Anwar Ali	Male
18	Ali Saddam	Male
19	Mohammed Hatim	Male
20	Hussain Sahi	Male
21	Alawi Sahi	Male
22	Hussain Zaidoon	Male
23	Hussain Hawas	Male
24	Kareem Hussain	Male
25	Faisal Ali	Male
26	Ahmad Ghazi	Male
27	Hamza Kareem	Male
28	Hussain Ali	Male
29	Mahdi Hussain	Male
30	Khadhem Ali	Male
31	Mustafa Mjmad	Male

Extension Program on the Use of Computer and Internet for Rural Junior and Youth
2-3 June, 2013 (Nainawa)

24 Participants

0 Female

24 Male

1	Haider Shams Eldin	Male
2	Haneef Hakeem Hikmat	Male
3	Saif Hussain Abbass	Male
4	Abdulrazzaq Bashar	Male
5	Qasem Abdulmuhsin	Male
6	Nuhammadi Ezz Eldin	Male
7	Ali Muslim	Male
8	Nibras Younis	Male
9	Hassan Attallah	Male
10	Ali Qasem Ahmad	Male
11	Muhi Eldin Shams Eldin	Male
12	Kadhem Abdulmuhsin	Male
13	Khair Eldin Shams Eldin	Male
14	Ahmed Hashem Aziz	Male
15	Khidr Fathi Mustafa	Male
16	Akram Fadel Abbass	Male
17	Hassan Muharram Hassan	Male
18	Ameer Toma Dawud	Male
19	Anmar Sameer Elias	Male
20	Karam Fathi Elias	Male
21	Aies Basem Elias	Male
22	Fadi Salam Ya'akoub	Male
23	Sinan Wadman	Male
24	Rayan Hussain	Male

Video Production Course

29 Sep- Oct 10th (Basra)

15 participants attended the workshop

1 Female

14 Male

1	Faisal Kaduham	Male
2	Faleh Mousa	Male
3	Mohammed Shihab Ahmed	Male
4	Dighyaa Abdulkaduhm	Male
5	Amer Salman Absulhusain	Male
6	Dalal Rahim Saif Saad Husain	
7	Ali Rhyad	Male
8	Mazen Salih	Male
9	Jasem M. Al Baghdadi	Male
10	Usama .Yassir	Male
11	Yaser Mohammed	Male
12	Ali Qati	Male
13	Sajeda abdulhusain	Female
14	Khaled Ouda hmod	Male
15	Ali Ghazi Khalaf	Male

Video Production Training Course Report From
1–12 December, 2013 (Erbil)

33 participants attended the workshop.

0 Female

33 Male

1	Hersh Omer Sultan.	Male
2	Ali Hussain Hama Salih.	Male
3	Mahir Mohammed Saied.	Male
4	Ahmed Ibraheem.	Male
5	Shahab Faris Rasheed .	Male
6	Sadullah Ahmed Amin.	
7	Kamal Aziz Mohyaddin.	Male
8	Rebwar Saber.	Male
9	Yaser Alaa Mohammed..	Male
10	Ali Riyadh Ibraheem	Male
11	Osama Yassin Modher	Male
12	Mazin Saleh Hamad	Male
13	Khasraw Mamand Anwar .	Male
14	Azoz Ahmed.	Male
15	Dr.Eric Millstrey/	Male
16	-Dilshad Abo Baker/	Male
17	Dr.Fouad Hussain/	Male
18	Safeen Sami mohammed .	Male
19	Kamal Omer Hassan.	Male
21	Badraddin Mahmood.	Male
22	Tayeb Abdelqadir.	Male
23	Zober Saber.	Male
24	Siyaman Hamad.	Male
25	Khalid Salih.	Male
26	Hassan Saleem Radha.	Male
27	Ihsan Tahseen Hamad Ameen.	Male
28	Othman Hamza Ali.	Male
29	Nawzad Sulyman Tawfeeq.	Male
30	Abdel Maseeh Marqooz Mosa	Male
31	Zhyan Aziz Hamad.	Male
32	Nakhsha Ahmed Fatah.	Male
33	Faisal Daham/	Male

Rapid Policy Impact Implementation Meeting among Stakeholders

31March- 2April, 2013 (Baghdad)

62 Participants

16 Female

46 Male

Organization	Number of Attendees	
MoA	35	
MoAWR	4	
Universities	4	
Other Institutions	5	
Private	6	
Farmers	8	
Total	62	
	Male	Female
	46	16

Policy Workshops

16 Participants

Value Chain Training Course for Wheat and Date Palm
8-10 October, 2013 (Erbil)

34 Participants
3 Female
31 Male

1	Mahdi Saher	Male
2	Musazhker Hamdan	Male
3	Jalal Karime jassim	Male
4	Hazem Abd El Amir	Male
5	Ali Hassan Gaber	Male
6	younis Mohamed younis	Male
7	Saadullah Ahmed Ameen	Male
8	Aram Saleh Abdulla	Male
9	Nawzad yons Ismail	Male
10	Hawsar Kawa	Male
11	Mohammed ghazi rashid	Male
12	Ali basim Mahmood	Male
13	Firas Harth jassim	Male
14	Thuraia Sadeq Jaafer	Female
15	Mackia Kadhum hassan	Male
16	Adnan Mohamed Yousif	Male
17	Hameed Hussin Jassim	Male
18	Zaid allawi Ahmed	Male
19	Adil Abbas Ahmed	Male
20	Saadon Mohamed Habib	Male
21	Ammar Najm Abed	Male
22	Sadeq Mohamod	Male
23	Sabah Saleh al dдин	Male
24	Taleb Khals Hashem	Male
25	Daham Yassin Mishaan	Male
26	Qahtan Sameer Mustafa	Male
27	Ibrahim Abdul Bari abed Ali	Male
28	Kamaran Ibrahim Tahir	Male
29	Samih Jawher Berzany	Male
30	Hassan Mohamed Omar	Male
31	Hanan Ghanim Mekhur	Female
32	Faisal Kadhum Mutasher	Male
33	Farouk Ali Authman	Male
34	Intisar Abass	Female

Linkage between Universities, Research in MoA WR and Extension in IKR Erbil
May 20, 2014 (Erbil)

37 Participants

4 Female

33 Male

1	Wasan Mahdi	Female
2	Mohammed Jawher Ali	Male
3	Ronak Burhan Hameed	Male
4	Tavga Omar Othman	Female
5	Shahab Faris Rasheed	Male
6	Fadhil Mustafa Rasheed	Male
7	Satar Ali Awtaq	Male
8	Ahmed Ibraheem Mahmood	Male
9	Farydon Mohamed Mohamed	Male
10	Loqman Omar Shareef	Male
11	Abdul sattar Abdula	Male
12	Rasheed Abdulkareem	Male
13	Rizan Abdulla	Male
14	Hassan Zubeer Yahya	Male
15	Tawfeeq Salih Mohamed	Male
16	Sedq Aziz	Male
17	Kamil Khoshnaw	Male
18	Taha Ameen	Male
19	Sami M. Maarroof	Male
20	Shelar M Taha	Male
21	Shahab M Naife	Male
22	Ahmed Al Khalaf	Male
23	Shawket M. Mohammed	Male
24	Shukri H Saleh	Male
25	Shaymaa M. Abdulkader	Male
26	Aveen Ahmed	Female
27	Khasraw Mamend	Male
28	Ghazi Faiq Haji	Male
29	Kawa Abdulkareem	Male
30	Yawer Adham	Male
31	Yousf Khoshnaw	Male
32	Karawan Dawed Mustafa	Male
33	Shad Esmail Mohamed	Female
34	Tarek Khaled	Male
35	Azoz Mohamed	Male
36	Dilshad Abobekir	Male
37	Ahmed Mohammed	Male

Baseline Survey for Researchers and Enumerators

1st -3edDecember, 2013 (Basra)

21 Participants

1 Female

20 Male

1	Hassan Hameed Mula	Male
2	Abdulkareem Nassif	Male
3	Kassim abdulhusain ali	Male
4	Jalal abdulhusain ghazal	Male
5	Heba Khaled mostafa	Male
6	Hadi Abdulhassan Hashim	Male
7	Rasem abed khangar	Male
8	Ghaleb abo elheal	Male
9	Mohamed Mohsen thegel	Male
10	Abdul razak tali abed	Male
11	Husain Maki hmod	Male
12	Abdulsalam abdulsatar	Male
13	Firas Abdul ameer	Male
14	Sinan Mohamed hasan dahdoh	Female
15	Kamil fadel abas	Male
16	Rayad jaafar ali	Male
17	Fadil abas Mohamed	Male
18	Mohamed Khaled Mohamed	Male
19	Sara fahed abed	Male
20	Taha zwaid abed	Male
21	Horaia saad hantosh	Male

Building Capacities of Agricultural Extension Agents
18-22/8/ 2013 (Erbil)

55 Participants

16 Female

39 Male

1	Faisal Khadim	Male
2	Dr.Ashwaq Abdulrazaq	Female
3	Dr.Intisatar Abbas Homady	Female
4	Souad Abdulhadi Hamoodi	Female
5	Wasan Mahdi Ashour	Female
6	Osama Jameel Khateeb-	Male
7	Wadad Ali Akbar Jaffar	Female
8	Noor Duraed Sadee-	Female
9	Hannan Gorege Majeed	Female
10	Omer Modher Sarhan-	Male
11	Hussain Jabber Fadhil	Male
12	Mohammed AbdelRaheem Jalal	Male
13	Ahmed Hadi Ali	Male
14	Mohanad Rasheed Ibraheem	Male
15	Majeed Hameed Rasheed	Male
16	Majeed Baraa Farhan	Male
17	Mays Dawed Abdul-Jabbar	Female
18	Khilood Fadhil Ahmed-	Female
19	Loay Mohammed Rasheed-	Male
20	Emad Manaf Shaheed –	Male
21	Hasaneen Mahmood Abood-	Male
22	Zaianb Rahman Jassim-	Female
23	Eman Shkool Ofee-	Female
24	Qasim Hasan Rasham-	Male
25	Basim Mohammed Jabber	Male
26	Saleem Abbas Hasan	Male
27	Mohammed Mahdi Khadhim--	Male
28	Hakim Talkeef Abed-	Male
29	Jawad Hassan Hameedi	Male
30	AbdelHussain Sahar Jassim	Male
31	Ali Abdulla Khadim	Male
32	Hassan Hameed Moalaa	Male
33	Sabah Mihsen Abood--	Male
34	Jabbar Halasa Mohammed-	Male
35	Jihad Deghemath Tabaan	Male
36	Naser Abed Ali Ghadeer	Male
37	Ammar Tareq Atta	Male
38	Nagham Jameel Ahmed	Female
39	Ammar Ahmed AbdelHafth	Male
40	Khalis Mohammed Ibraheem-	Male
41	Sadulla Ahmed Ameen	Male
42	Bizhween Anwar Mohammed Ameen-	Female
43	Marwan Shukur Mahmood	Male
44	Soleen Mohammed Mahmood--	Female
45	Sanger Ahmed Aziz	Male
46	Srwa Othman Kareem	Female
47	Bakhtoyar Taha Qadir--	Male
48	Heaz Taher-USAID	Male
49	Dr.Fouad Hussain-USAID.	Male
50	Dr.Erci Milstrey	Male
51	Dilshad-	Male
52	Aveen Ahmed Ramadan-	Female
53	Dr.Sabah Oda-	Male
54	Dr.Mohammed Oqla-	Male
55	Khasraw Mamend-	Male

Baseline Survey Training Course

1– 5 September, 2013 (Erbil)

34 Participants

8 Female

26 Male

1	Ziead Tarrig	Male
2	Alaa Ramadhan Helal	Male
3	Mohammed KHaled.Mohammed	Male
4	Mohammed Jasem .Ali	Male
5	Kamel Fadhel Abass	Male
6	Hatam.Mershed Ali	Male
7	Saib Hesson Merzah	Male
8	Saadullah Ahmed	Male
9	Hussein Maki Hmood	Male
10	Salman Mohamed moree	Male
11	Riyddh Jaafar Ali	Male
12	Khidhir Abbas Hameed	Male
13	Duraid Y. Abd	Male
14	Jabbar. Karem .Wali	Male
15	Abd Al Salam Abd Al Satar	Male
16	Zidan Khalaf Radam	Male
17	Raid Jabbar Kadhumi	Male
18	Elham Jawad Mahdi	Female
19	Faten Fadhil Kadhimi	Female
20	Abdul Jabbar Mustafa Aziz	Male
21	Jumaa Ways Qanbar	Male
22	Aveen Ahmed Ramadan	Female
23	Hayder Najem Abed	Male
24	Heba Kaled Mostafa	Female
25	Abeer Ali Abdulla	Female
26	Ghaida Kamil Naji	Female
27	Hurria Saad Al Saady	Female
28	Abbas Bediwy Nayeef	Male
29	Rasem Abid Khanjer	Male
30	Sara Fahed Abed	Female
31	Mohammed Sabeh Kataa	Male
32	Ghassan Aessa Mashhoot	Male
33	Farouq Ali Othman	Male
34	Khader Abbas Jassem	Male

Performance Monitoring and Evaluation (PME) Training Course on Seed Technology and Related Agricultural Input

28 July – 1 August, 2013 (Erbil)

20 Participants

2 Female

18 Male

1	Noaman Shaker	Male
2	Azoz Ahmed	Male
3	Saba Ahmed	Female
4	Faisal Kadhimi	Male
5	Ammar Ali	Male
6	Farouq Ali	Male
7	Sabah D. Abed	Male
8	Saleh Bader	Male
9	El Tighani Merghany	Male
10	Emad Al-Maarof	Male
11	Nasreen H. Ali	Female
12	Abdulminam Hussien Ali	Male
13	Mazin Mutlak Abdulateef	Male
14	Ali Salem Lafta	Male
15	Dr.Abdulhussein El Hakim	Male
16	Mohamed Jasm Ali	Male
17	Abdulsatar Arif Ali	Male
18	Francis Oraha Janno	Male
19	Sardar Sami	Male
20	Ali Bashir	Male

Extension Program on improving of reproduction Efficiency and Sheep Production Increase by the Use of Estrus Synchronization
May 22nd, 2013(Baghdad)

15 Participants

0 Female

15 Male

Organization	Number of Attendees	
Farmers (sheep herders)	15	
Total	15	
	Male	Female
	15	0

Extension Program on improving of reproduction Efficiency and Sheep Production Increase by the Use of Estrus Synchronization
May 29th, 2013 (AlShafiyia Farm – AlDiwaniya)

19 Participants

0 Female

19 Male

Organization	Number of Attendees	
Farmers	19	
Total	19	
	Male	Female
	19	0

Extension Program on Fish Production by Closed System

21-23 May 2013 (Al Muthana \ AlNajmi)

43 Participants

7 Female

36 Male

Organization	Number of Attendees	
Other Institutions	8	
Private	21	
Farmers	14	
Total	43	
	Male	Female
	36	7

Extension Program on Fish Diseases by Floating Cages

21-23 May, 2013 (Baghdad / Al Rashidiya)

42 Participants

0 Female

42 Male

Organization	Number of Attendees	
Farmers	42	
Total	42	
	Male	Female
	42	0

Extension Program on Bee Keeping

21-24 May,2013 (Maisan / AlKahla Farm)

16 Participants

16 Female

0 Male

1	Batool Raheem Radhi Muhsin	Female
2	Sabeeha Kadhem Draig	Female
3	Eman Abbass Shasmi	Female
4	Dua'a Jawad Abdul Kadhem	Female
5	Hasna Dakhel Raheem Rasn	Female
6	Najat Kadhem Draig Mohammed	Female
7	Zainab Dakhel Raheem	Female
8	Ekhlas Ali Mohammed	Female
9	Sumaia Raheem Rasn	Female
10	Fatima Ali Mohammed Ali	Female
11	Fatima Kadhem Raheem Rasn	Female
12	Shaima'a Hatem Raheem Rasn	Female
13	Sabreen Hatem Raheem Rasn	Female
14	Zainab Luti Rahman Hassan	Female
15	Kawathar Saddam Luaibi	Female
16	Nidhal Luaibi Mahmoud	Female

Extension Program on Bee Keeping

May 28 -30, 2013(Babel / Al Mihanawiya Farm)

15 Participants

15 Female

0 Male

1	Fatima Kamil	Female
2	Waheeda Mohammed	Female
3	Shaima'a Dakhil	Female
4	Suhad Fadhel	Female
5	Huda Faleh	Female
6	Suror Abbass	Female
7	Kasia Hmood	Female
8	Fasilah Ahmad	Female
9	Rashda Braisem	Female
10	Shukria Ahmad	Female
11	Fatm Ali	Female
12	Siham Ali	Female
13	Zainab Kareem	Female
14	Madeeha Abdullah	Female
15	Khitam Juma'a	Female

Extension Program on Bee Keeping

11 -13 June, 2013 (Wasit \ Tajidee)

16 Participants

16 Female

0 Male

1	Shahla'a Hussain Salama	Female
2	Naba Nahidh Hameed	Female
3	Safa'a Nadher Hameed	Female
4	Rasha Aid	Female
5	Hana'a Sadiq	Female
6	Fatima Abdulrahman	Female
7	Zakia Kareem Mohammed	Female
8	Enas Raheem Mohammed	Female
9	Maeda Kareem Mohammed	Female
10	Zainab Darweesh Lateef	Female
11	Nawras Hadi Nayef	Female
12	Ameena Mohammed Azzawi	Female
13	Noor Ibrahim	Female
14	Athra'a Saleem Hilal	Female
15	Eman Faheem Hilal	Female
16	Dua'a Yaser	Female

Development Program of Skills and Knowledge of Rural Women on Beekeeping

May 28 -30,2013 (Baghdad / Al Rashidiya Farm)

15 Participants

15 Female

0 Male

1	Majidah Abdul Majid	Female
2	Hadiya Yaser Shawkat	Female
3	Fatima AbdulHussain	Female
4	Hamdiya Wafar Hassan	Female
5	Mona Mahdi Yaser	Female
6	Hanan Salem Mohammad	Female
7	Zakiya Khalid Kadhem	Female
8	Rana Ghanim Mohammad	Female
9	May Abdullah Khadhem	Female
10	Baheaja Ahmad Subh	Female
11	Sana Blasem Ibrahim	Female
12	Mayasa Majeed Hassan	Female
13	Mithaq Bashir Abbass	Female
14	Asseel Hassan Khalaf	Female
15	Nofa Hameed Dhary	Female

Extension Program on Bee Keeping Problems for Rural Junior and Youth

June 3-5, 2013 (Kirkuk)

14 Participants

0 Female

14 Male

1	Mustafa Malko	Male
2	Zada Abbass	Male
3	Huaim Husain	Male
4	Siamend Malko	Male
5	Zrosht Hussain	Male
6	Sarmand Farhad	Male
7	Thamer Sabah	Male
8	Marwan Nadhem	Male
9	Mohammed Hameed	Male
10	Sudan Mohammed	Male
11	Khalid Ra'aouf	Male
12	Mustafa Ra'aouf	Male
13	Abbass Mohammed	Male
14	Fattah Othman	Male

Purification of Seed Production Fields

22-24 September, 2013 (Najaf)

51 Participants

2 Female

49 Male

Organization	Number of Attendees	
MoA	7	
MoAWR	18	
Farmers	22	
Universities	1	
Private Sector	3	
Total	51	
	Male	Female
	49	2

Agricultural Waste Recycling and Production of Organic Fertilizer (Compost)
29-31 October, 2013 (Najaf & Muthanna Provinces)

18 Participants
3 Female
15 Male

Organization	Number of Attendees	
MoA	17	
Farmers	1	
Total	18	
	Male	Female
	15	3

Processing and Quality Testing
3-4 March, 2013 (Erbil)

37 Participants
5 Female
32 Male

1	Abdul Satar abdullah omar	Male
2	Rashid Abdul karim Addullah	Male
3	Yousif Ahmed Maulood	Male
4	Risan Abdullah Qadeer	Male
5	Ali Shames Allah Aziz	Male
6	Idris Medhat Muhammed	Male
7	Jalil Abdula Faraj	Male
8	Dalila Nadeer Sulaiman	Female
9	Mohamed Ahmed Muhamed	Male
10	Jalal Abdullah Elias	Male
11	Subhi Yassin Hassan	Male
12	Karwan Dawood Mustafa	Male
13	Shad Ismail Mahmoud	Female
14	Shahla Rasul Ismail	Female
15	Suham Dhahir Ismail	Female
16	Dlpack Dilshad Hussain	Male
17	Lana Farhad Ibrahim	Female
18	Omer Wahab Hassan	Male
19	Rizgar Kamal Abdullah	Male
20	Karwan Jabar Omer	Male
21	Miqdad Hassan Ahmed	Male
22	Mohammed Younis Ahmed	Male
23	Emad Hamad Hussein	Male
24	Byar Muhsen Fakhrey	Male
25	Raman Mustafa Ali	Male
26	Serwan Hassan Hussien	Male
27	Ali Ahmed Khalifa	Male
28	Mohammed Raheem Turkey	Male
29	Muhammed Rasheed Mohammed Ali	Male
30	Ali Hama Hassan	Male
31	Jabar Qader Hussein	Male
32	Qader Mustafa	Male
33	Abdul Jalil Raheen Aboud	Male
34	Haider Najem Adbullah	Male
35	Mohammed Hadi Hamid	Male
36	Thamer Ahmed	Male
37	Oral Musa	Male

Zero Tillage Machinery Training Course Report

04 – 07 November, 2013 (Erbil)

17 Participants

0 Female

17 Male

1	Raouf Hussain Ali	Male
2	Soran Samad Abdulla	Male
3	Bayar Hadil Aziz	Male
4	Rezhan Sadeq Abdulrahman-	Male
5	Adel Abdulla Sharief	Male
6	Hemin Fouad Ali	Male
7	Zeadan Yassin Suliman	Male
8	Taha Yassin Redha	Male
9	Diler Mohammed Abdulla	Male
10	Jabbar Amin Hussain	Male
11	Esmat Mustafa Sadiq	Male
12	Qahar Aziz Hama	Male
13	Mohammed Ghazi Rasheed	Male
14	Nawzad Younis Ismail	Male
15	Sarkawt Qadir Majeed	Male
16	Kamaraman Ibraheem	Male
17	Saffa Ahmed Amin-	Male

Operating Mobile Seed Cleaners

4 – 6 August, 2013 Qushtapa- Seed Cleaning Factory Erbil- Iraqi Kurdistan Region

13 Participants

0 Female

13 Male

1	Amjad Majeed sakih	Male
2	Mustafa Qadir Mohammed	Male
3	Yousif Majeed	Male
4	Noori Saeed Karim	Male
5	Sarbaz Jalil Hamad	Male
6	Mahmood Mawlod Ali	Male
7	Kamal Othman Mohammed	Male
8	Reddar Moheddin Khdr	Male
9	Hunar Baba Saleh	Male
10	Farhad Rafiq Hamad	Male
11	AbdulAziz AbdulMajeed Mustafa	Male
12	Karwan jabbar	Male
13	Yousif Omer	Male

Operating Mobile Seed Cleaners

08 - 10Sep, 2013 Gardabore seed cleaning plant, Sulaimanya

29 Participants

0 Female

29 Male

1	Thaheer Raouf Khalifa	Male
2	Fouad Mohammed Bera waes	Male
3	Sardar Abdulrahman Saed	Male
4	Edrees Ali Rasheed	Male
5	Ali Hama Hussain-	Male
6	Mohammed Rasheed Mohammed	Male
7	Jabbar Qadir Hussain	Male
8	Jalil Abdulla Faraj	Male
9	Ali Ameen Abdullah	Male
10	Sarko Hussain Kareem	Male
11	Mahmood Majeed Kareem	Male
12	Jabbar Hama Salah Kareem	Male
13	Saman Rahman Khalil	Male
14	Jamal Mahmood Hussain	Male
15	Osman Mohammed Mustafa	Male
16	Fatihulla Abdulla Hama Salih	Male
17	Hatam Ali Kakameen	Male
18	Khalid Mahmood Birut	Male
19	Raheem Ameen Qadir	Male
20	Ali Ahmed Khalifa	Male
21	Abdulateef abdukkareem	Male
22	Pishdar Hussain Ali	Male
23	Yassin Abdulla Ameen	Male
24	Farooq Ali	Male
25	Sarkawt Taha Ahmed	Male
26	Mohammed Kherlla	Male
27	Ali Hussain Alwan	Male
28	Sardar Sami	Male
29	Abdul Razaq Jabbar	Male

Operating Mobile Seed Cleaners

29Sep - 01Oct, 2013 Faida seed cleaning plant, Dohuk

17 Participants

0 Female

17 Male

1	Rashid Ibrahim Suleiman	Male
2	Moqdad Hassan Ahmed.MoAWR/Dohuk	Male
3	Mohammed Yunus Ahmed. MoAWR/Dohuk	Male
4	Esmat Mustafa Sadiq. MoAWR/Dohuk	Male
5	Razheen Taha Mohammed. MoAWR/Dohuk	Male
6	Qahar Aziz Hama. MoAWR/Dohuk	Male
7	Raman Mustafa Ali. MoAWR/Dohuk	Male
8	Govan Kamal Nuri. MoAWR/Dohuk	Male
9	Younan Youel Daniel. MoAWR/Dohuk	Male
10	Mustafa Amin Jabalie. MoAWR/Dohuk	Male
11	Abdel Hamid Khaled. MoAWR/Dohuk	Male
12	Hussein Mustafa Mohammed. MoAWR/Dohuk	Male
13	Mohammed Shakir Qurtaas. MoAWR/Dohuk	Male
14	Arteen Goulan Mousa. MoAWR/Dohuk	Male
15	Amin Omar Suleiman. MoAWR/Dohuk	Male
16	Amir Omar Sedeeq.	Male
17	Farooq Ali.MoAWR/Erbil	Male

Date Palm Orchards Service Workshop

30 Jun - 04 Jul 2013(Basra)

29 Participants

3 Female

26 Male

1	Kadhun Mkheef	Male
2	Nadhun Abdulkhedher	Male
3	Nazar Ahmed	Male
4	Taha Abdnaje	Male
5	Farhan Kamil	Male
6	Yasir Hadi	Male
7	Ahmed Najim	Male
8	Saeb Subhie	Male
9	Ahmed Mohammed	Male
10	Adnan Hamza	Male
11	Taha Zwaied	Male
12	Ali Abdulhadi	Male
13	Salman Ali	Male
14	Saad Abdulhussain	Male
15	Abbas Khalaf	Male
16	Saeed Hussain	Male
17	Basim Rasheed	Male
18	Abbas Salal	Male
19	Rwaa jwad	Female
20	Saif Abdullah	Male
21	Brooj Mohammed	Female
22	Walaa jwad	Female
23	Mahmood talib	Male
24	Essam Hakem	Male
25	Makkie Abduljabbar	Male
26	Wisam Hamed	Male
27	Ayad Hussain	Male
28	Abdullah Yasin	Male
29	Ayad Jasim	Male

Date Palm Orchard Service Workshop for the Farmers

25-29 August, 2013 (Basra)

32 participants attended the workshop.

0 Female

32 Male

1	Hameed Mazyed	Male
2	Hamed Jasim	Male
3	Jameel Ebadi	Male
4	Hamed Alwan	Male
5	Abduldaiem Abdulhassan	Male
6	Amjad Abdulhadi	Male
7	Qasim Mutlagh	Male
8	Auda Lazim	Male
9	Auda Mshari	Male
10	Jafar Salih	Male
11	Aqeel Qasim	Male
12	Salah hameed	Male
13	Hashim Mohammed	Male
14	Zaki Abood	Male
15	Tariq Hussain	Male
16	Ubaid Ali	Male
17	Ali Kishaish	Male
18	Abbas Fadhel	Male
19	Najim Abdulwahid	Male
20	Othman Basha Eian	Male
21	Ahmed Abdulkareem	Male
22	Ahmed Neama	Male
23	Shani Khreabut	Male
24	Wisam Atiea	Male
25	Radhie Aziz	Male
26	Khebian Muter	Male
27	Ghalib Mossa	Male
28	Rahiem Hussain	Male
29	Jaafer Salih	Male
30	Abdulhussain Aziz	Male
31	Hassan Byean	Male
32	Hamed Abdulkareem	Male

Extension Program on Organic Fertilizers and How to be manufacture in the Field
June 1-5 2013 (Al Mashtal Farm, Maisan)

11 Participants attended the workshop.
0 Female
11 Male

Organization	Number of Attendees	
Farmers	11	
Total	11	
	Male	Female
	11	0

Plant Breeding Training Course

1 – 5 September, 2013 (Erbil)

22 participants attended the workshop.
7 Female
15 Male

1	Abdulstar Abdulla Omar-	Male
2	Soran Habeeb Mohammed-	Male
3	Irfan FatihShukur-	Male
4	Arevan Jalil Sharif-	Female
5	Shahla Rasul Ismail-	Female
6	Mohammed Ahmed Ahmed-	Male
7	Jalal Abdulla Elyas-	Male
8	Saeed Abdulmajeed Ismail-	Male
9	Mehdi Fariq Ali	Male
10	Ali ShamsullahAzeez	Male
11	Muhammed Amin Sabr Mohammed-	Male
12	Sadiq Ahmed Abdelrahman-	Male
13	Maher TaherKhudhur-	Male
14	Faraidoon Mawlood Hussein-	Female
15	Suham Dhahir Ismael-	Female
16	Dilpak DilshadHussain-	Female
17	Taban Najmalddin Hama Amin-	Female
18	Suaad Muhammad Sheikh Abdulla-	Female
19	Dr. Turki KademFalih-	Male
20	Akeed BaiezAlaadin-	Male
21	Dr.Eric Milstrey-	Male
22	Abo Baker Dilshad	Male

Extension Program on Combat of Nematode on Wheat

May 22-23, 2013 (Erbil)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with no remarks.

Extension Program on Combat of Nematode on Wheat

May 24-25, 2013 (Salah Eldin AlDour Farm)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with no remarks. **Extension Program on Combat of Nematode on Wheat**

May 26-27, 2013 (Salah Eldin AlDour Farm)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with no remarks.

Extension Program on Combat of Nematode on Wheat

May 29-30, 2013 (Salah Eldin AlDour Farm)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with no remarks.

Extension program on visits for farmers and extension staff exchange of expertise among provinces of Iraq

15-16 May, 2013 (Karbala Extension Center)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with no remarks.

Iraqi Irrigation Training Program – Center Pivot Irrigation
November 3 - 5, 2013 (Erbil)

I. Contents of the Workshop				مضمون أو محتويات ورشة ا...†E•
Relevance of the workshop to your job	3.40			f,,...†‡ ^%Š<E• ^Z•4€
Coverage of the subject in the material provided		2.5		مدى تغطية المواضيع في ^%Š<E• †e” وضوح أهداف الورشة
Clarity of Workshop objectives	3.45			‘•”•...E• €←
Level of lectures		3.12		~Z”TM...E Š>œ...E
Time allocated for discussions		3.15		3, “•”£-E• €←
Level of interaction with participants	3.45			المشاركين
Overall, how would you rate this Workshop	3.45			بشكل إجمالي ، كيف تقيم هذه الورشة
II. Schedule and time allocation				جدول أعمال وتوزيع الوقت
Percentage of time allocated to lectures	3.45			Š>œ...E• •Z<E• ^Z ‘•”•...E•
Usefulness of lectures	3.45			, †e”£-E• †Š ^†E”TM... ‘•”•...E•
Percentage of time allocated to the technical field/lab visits		2.95		Š>œ...E• •Z<E• ^Z للعمل الحقلّي أو زيارة
Usefulness of the technical field/lab visits		2.95		, †e”£-E• †Š ^†E”TM... «’Z-œ...E•ŠE• ا...
III. Teaching aids				وسائل التدريس
Effectiveness of teaching aids in general	3.43			مدى تأثير وسائل التدريس بصورة عامه
Clarity of slides/overheads/PowerPoint		2.50		-@•”%~ †“† €•, -††E•
Use fullness of handouts and print material		2.50		‘•”TM(E• , †e”£-E• †Š “”•Z°...E•
IV. Administrative arrangements				الترتيبات الإدارية
Pre-Workshop communication		3.1		عمليات الاتصال قبل البدء ^%Š<E•
Travel arrangements	3.6			ترتيبات السفر
Quality of the accommodation	3.8			جودة مكان المبيت
Payment of allowance on time		2.65		•Z<E• †± 2•Z(E•
Transportation		2.65		“©TM
Lecture rooms		2.65		†“”•...E• ^±

Your comments and suggestions on the course:

- Please state the most important ideas/concepts that you learned from this course
 - Use of sprinklers so well that reduces the amount of water lost
 - Increasing the use of fertilizer plant provided
 - Process control pests be more effective
2. Suggestions for future improvement of the course
- Work to repeat the training workshop again
 - Increase the field days to their importance
 - Expansion of scientific material to give the benefit

Extension Program & Field Training on the use of Renewed Energy & Desalination of Water Irrigation Systems in Vegetable Crops in Desert Areas

May 16, 2013 (Najaf)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with some remarks to increase the course duration and further subjects that will assist the farmers more in to growing better crops in dry areas.

Extension Program & Field Training on the use of Renewed Energy & Desalination of Water Irrigation Systems in Vegetable Crops in Desert Areas

May 23, 2013 (Najaf)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with some remarks to increase the course duration and further subjects that will assist the farmers more in to growing better crops in dry areas.

Extension Program on Modern Irrigation Technologies

1-5 June, 2013 (Thi Qar)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively.

Public-Private Partnership (PPP) for agribusiness development in Date Palm Tissue Culture
18-19 May, 2014 (Basra)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	4.24
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	3.68
Clarity of course objectives 1=Not clear 5=Very clear	3.51
Level of lectures 1=Too basic 5=Just right	4.15
Time allocated for discussions 1=Too short 5=Just right	3.33
Interaction with participants enrolled in the course 1=Very low 5=Very high	3.20
Overall, how would you rate this course 1=Poor 5=Excellent	4.09

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	3.55
Usefulness of Lectures 1=not useful 5=useful	4.21
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	3.2
Usefulness of the technical field/lab visits 1=not useful 5=Useful	2.69

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.12
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	4.25
Handouts and material 1=Not useful 5=Very useful	4.10

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	4.31
Travel arrangements	4.20
Quality of the accommodation	3.1
Payment of allowance on time	2.90
Transportation	3.69
Lecture rooms	4.01

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

- How to improve and develop the tissue culture sector
2. Suggestions for future improvement of the course
- The establishment of more laboratories for tissue culture

Visit program of International TC experts in Al-Basrah TC Laboratory

February 22-4 March, 2014 (Basra)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	4.02
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	3.68
Clarity of course objectives 1=Not clear 5=Very clear	4.21
Level of lectures 1=Too basic 5=Just right	4.01
Time allocated for discussions 1=Too short 5=Just right	3.33
Interaction with participants enrolled in the course 1=Very low 5=Very high	4.20
Overall, how would you rate this course 1=Poor 5=Excellent	4.15

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	3
Usefulness of Lectures 1=not useful 5=useful	3
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	2
Usefulness of the technical field/lab visits 1=not useful 5=Useful	2.25

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.75
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	4.56
Handouts and material 1=Not useful 5=Very useful	4.90

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	3.31
Travel arrangements	4.20
Quality of the accommodation	4.1
Payment of allowance on time	4.50
Transportation	4.69
Lecture rooms	4.42

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

- Food center
- Apical bud

2. Suggestions for future improvement of the course

- Make a new courses in order to discuss the problems we face and ways to solve them
- longest time of courses
- Courses intensive process
- Possibility of courses outside the country in the productivity of plants for planting textile

Information and Communication Technology (ICT) Extension Workshop

Part (I)

November 3 - 5, 2013 (Erbil)

I. Contents of the Workshop				مضمون أو محتويات ورشة العمل
Relevance of the workshop to your job	2.4			f, ...
Coverage of the subject in the material provided		2.1		مدى تغطية المواضيع في مادة الورشة
Clarity of Workshop objectives	2.5			وضوح أهداف الورشة
Level of lectures		2		•••••
Time allocated for discussions	2.4			~Z™
Level of interaction with participants	2.6			مستوى التفاعل مع المشاركين
Overall, how would you rate this Workshop	2.4			بشكل إجمالي ، كيف تقيم هذه الورشة
II. Schedule and time allocation				جدول أعمال وتوزيع الوقت
Percentage of time allocated to lectures		2.3		•••••
Usefulness of lectures	2.5			•••••
Percentage of time allocated to the technical field/lab visits			1.5	•••••
Usefulness of the technical field/lab visits			1.1	•••••
III. Teaching aids				وسائل التدريس
Effectiveness of teaching aids in general	2.6			مدى تأثير وسائل التدريس بصورة عامه
Clarity of slides/overheads/PowerPoint		2.1		•••••
Use fullness of handouts and print material		2.1		•••••
IV. Administrative arrangements				الترتيبات الإدارية
Pre-Workshop communication		2		عمليات الاتصال قبل البدء بالورشة
Travel arrangements	2.5			ترتيبات السفر
Quality of the accommodation	2.5			جودة مكان المبيت
Payment of allowance on time		2.1		•••••
Transportation		2.1		•••••
Lecture rooms		2.3		•••••

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

- Set up a special website of the field of agriculture
- Recognize the achievements taking place in different places of the world as well as to identify the ideas of others
- Exchange information for the public benefit

2. Suggestions for future improvement of the course

- make a new courses in order to discuss the problems we face and ways to solve them

Extension Program on Learning Computer for Rural Junior and Youth

19- 23 May, 2013 (Maissan)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and training and how effective was it to them, the responses came positively with no remarks.

Extension Program on the use of Computer and Internet for Rural Junior and Youth

June 2-3, 2013(Nainawa)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and training and how effective was it to them, the responses came positively with no remarks.

Video Production Course
 Sept 29th - Oct 10' 2013 (Basra)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	3.33
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	2.98
Clarity of course objectives 1=Not clear 5=Very clear	3.90
Level of lectures 1=Too basic 5=Just right	4.11
Time allocated for discussions 1=Too short 5=Just right	3.67
Interaction with participants enrolled in the course 1=Very low 5=Very high	3.84
Overall, how would you rate this course 1=Poor 5=Excellent	4.06

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	3.12
Usefulness of Lectures 1=not useful 5=useful	3.6
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	3.8
Usefulness of the technical field/lab visits 1=not useful 5=Useful	4

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.8
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	2.9
Handouts and material 1=Not useful 5=Very useful	2,75

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	3
Travel arrangements	3.24
Quality of the accommodation	4
Payment of allowance on time	3.56
Transportation	2.5
Lecture rooms	3.4

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course
 Field visit very helpful in improving our work and understand lessons

2. Suggestions for future improvement of the course

- Repeat this training Again

Video Production Training Course Report

1–12 December, 2013 (Erbil)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	3.33
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	2.98
Clarity of course objectives 1=Not clear 5=Very clear	3.90
Level of lectures 1=Too basic 5=Just right	4.11
Time allocated for discussions 1=Too short 5=Just right	3.67
Interaction with participants enrolled in the course 1=Very low 5=Very high	3.84
Overall, how would you rate this course 1=Poor 5=Excellent	4.06

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	3.12
Usefulness of Lectures 1=not useful 5=useful	3.6
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	3.8
Usefulness of the technical field/lab visits 1=not useful 5=Useful	4

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.8
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	2.9
Handouts and material 1=Not useful 5=Very useful	2,75

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	3
Travel arrangements	3.24
Quality of the accommodation	4
Payment of allowance on time	3.56
Transportation	2.5
Lecture rooms	3.4

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

Field visit very helpful in improving our work and understand lessons

2. Suggestions for future improvement of the course

- Repeat this training Again

Rapid Policy impact Implementation meeting among stakeholders

March 31-April 2013, (Baghdad)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with some remarks to increase the course duration and further subjects that will assist the farmers more in to growing better crops in dry areas.

Value Chain Training Course for Wheat and Date-Palm

October 8-10, 2013 (Erbil)

I. Contents of the Workshop				مضمون أو محتويات
Relevance of the workshop to your job	2.6			f, ...
Coverage of the subject in the material provided		1.9		مدى تغطية المواضيع في مادة
Clarity of Workshop objectives	2.5			وضوح أهداف الورشة
Level of lectures	2.4			
Time allocated for discussions	2.7			
Level of interaction with participants	2.4			مستوى التفاعل مع المشاركين
Overall, how would you rate this Workshop	2.5			بشكل إجمالي ، كيف تقيم هذه الورشة
II. Schedule and time allocation				جدول أعمال وتوزيع الوقت
Percentage of time allocated to lectures	2.5			
Usefulness of lectures	2.1			
Percentage of time allocated to the technical field/lab visits		1.6		أو زيارة المختبرات
Usefulness of the technical field/lab visits		1.5		
III. Teaching aids				التدريس
Effectiveness of teaching aids in general	2.3			مدى تأثير وسائل التدريس بصورة علمية
Clarity of slides/overheads/PowerPoint		1.5		
Use fullness of handouts and print material	2			
IV. Administrative arrangements				الترتيبات الإدارية
Pre-Workshop communication		1.8		عمليات الاتصال قبل البدء بالورشة
Travel arrangements	2.5			ترتيبات السفر
Quality of the accommodation	2.6			جودة مكان المبيت
Payment of allowance on time	2.4			
Transportation	2.7			
Lecture rooms	2.4			

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

- Recognize the achievements taking place in different places of the world as well as to identify the ideas of others
- Exchange information for the public benefit

2. Suggestions for future improvement of the course

- make a new courses in order to discuss the problems we face and ways to solve them

Linkage between Universities, Research in MoA WR and Extension in IKR
 May 20, 2014 (Erbil)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	3.42
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	4.11
Clarity of course objectives 1=Not clear 5=Very clear	2.21
Level of lectures 1=Too basic 5=Just right	3.37
Time allocated for discussions 1=Too short 5=Just right	3.89
Interaction with participants enrolled in the course 1=Very low 5=Very high	4.2
Overall, how would you rate this course 1=Poor 5=Excellent	3.50

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	3.28
Usefulness of Lectures 1=not useful 5=useful	4.14
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	4.01
Usefulness of the technical field/lab visits 1=not useful 5=Useful	2.49

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	4.07
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	3.7
Handouts and material 1=Not useful 5=Very useful	4.12

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	4.11
Travel arrangements	3.42
Quality of the accommodation	2.76
Payment of allowance on time	4.14
Transportation	4.30
Lecture rooms	4.13

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course
 Know the importance and Characterization of CAand Elements of ZT Technology

2. Suggestions for future improvement of the course

- Repeat the course

Baseline Survey for Researchers and Enumerators

1-3 Dec, 2013 (Basra)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	3.27
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	4.21
Clarity of course objectives 1=Not clear 5=Very clear	4.11
Level of lectures 1=Too basic 5=Just right	3.72
Time allocated for discussions 1=Too short 5=Just right	3.1
Interaction with participants enrolled in the course 1=Very low 5=Very high	4.55
Overall, how would you rate this course 1=Poor 5=Excellent	4.64

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	3.75
Usefulness of Lectures 1=not useful 5=useful	4.50
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	2.44
Usefulness of the technical field/lab visits 1=not useful 5=Useful	3.36

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.54
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	4.02
Handouts and material 1=Not useful 5=Very useful	3.91

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	3.11
Travel arrangements	4.11
Quality of the accommodation	4.17
Payment of allowance on time	4.80
Transportation	4.74
Lecture rooms	4.30

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

- Recognize the achievements taking place in different places of the world as well as to identify the ideas of others
- Exchange information for the public benefit

2. Suggestions for future improvement of the course

- make a new courses in order to discuss the problems we face and ways to solve them

BUILDING CAPACITIES OF AGRICULTURAL EXTENSION AGENTS

18-22 August, 2013 (Erbil)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	4.44
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	3.91
Clarity of course objectives 1=Not clear 5=Very clear	3.36
Level of lectures 1=Too basic 5=Just right	4.22
Time allocated for discussions 1=Too short 5=Just right	3.91
Interaction with participants enrolled in the course 1=Very low 5=Very high	4.11
Overall, how would you rate this course 1=Poor 5=Excellent	4.34

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	4
Usefulness of Lectures 1=not useful 5=useful	4.8
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	3.64
Usefulness of the technical field/lab visits 1=not useful 5=Useful	2.86

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	4.11
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	3.91
Handouts and material 1=Not useful 5=Very useful	3.27

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	4.91
Travel arrangements	4.36
Quality of the accommodation	4.49
Payment of allowance on time	4.73
Transportation	4.03
Lecture rooms	3.82

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

- How to plan agricultural extension programs.
 - How to put an extension plan?
 - What are the main steps of the extension plan?
 - Why we put an extension plan?
2. Suggestions for future improvement of the course
- Repeat the Course

Baseline Survey Training Course

1– 5 September, 2013 (Erbil)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	3.12
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	3.91
Clarity of course objectives 1=Not clear 5=Very clear	2.30
Level of lectures 1=Too basic 5=Just right	3.72
Time allocated for discussions 1=Too short 5=Just right	3.1
Interaction with participants enrolled in the course 1=Very low 5=Very high	2.55
Overall, how would you rate this course 1=Poor 5=Excellent	3.64

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	3
Usefulness of Lectures 1=not useful 5=useful	2.5
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	2.12
Usefulness of the technical field/lab visits 1=not useful 5=Useful	2.54

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.91
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	3.93
Handouts and material 1=Not useful 5=Very useful	4.1

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	3.44
Travel arrangements	3.36
Quality of the accommodation	2.57
Payment of allowance on time	1.73
Transportation	3.01
Lecture rooms	2.22

Your comments and suggestions on the course:

- Please state the most important ideas/concepts that you learned from this course
 - Base line questionnaire
 - How to collect data
- 2. Suggestions for future improvement of the course
 - Repeat this work shop again in another province
 - Increase the field part

Performance Monitoring and Evaluation (PME) Training Course

28 July – 1 August 2013 (Erbil)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	4.11
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	4.31
Clarity of course objectives 1=Not clear 5=Very clear	3.36
Level of lectures 1=Too basic 5=Just right	4.22
Time allocated for discussions 1=Too short 5=Just right	3.61
Interaction with participants enrolled in the course 1=Very low 5=Very high	4.25
Overall, how would you rate this course 1=Poor 5=Excellent	4.14

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	4
Usefulness of Lectures 1=not useful 5=useful	3,9
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	4.64
Usefulness of the technical field/lab visits 1=not useful 5=Useful	4.36

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.41
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	4.50
Handouts and material 1=Not useful 5=Very useful	4.20

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	3.01
Travel arrangements	4.50
Quality of the accommodation	4.12
Payment of allowance on time	3.73
Transportation	4.64
Lecture rooms	4.82

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

- Set up a special website of the field of agriculture
- Recognize the achievements taking place in different places of the world as well as to identify the ideas of others
- Exchange information for the public benefit

2. Suggestions for future improvement of the course

- make a new courses in order to discuss the problems we face and ways to solve them

Extension program on Improving of Reproduction Efficiency and Sheep Production Increase by the use of Estrus Synchronization

May 22nd, 2013 (Baghdad)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively.

Extension program on Improving of Reproduction Efficiency and Sheep Production Increase by the use of Estrus Synchronization

May 29th, 2013 (AlDiwaniya)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively.

Extension program on Fish production by closed system

21- 23 May, 2013 (Al Najmi)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with some remarks to increase the course duration and further subjects that will assist the farmers more in to growing better crops in dry areas.

Extension Program on Fish Diseases by Floating Cages

May 21 – 23, 2013 (Baghdad)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively.

Extension Program on Bee Keeping

May 21-24, 2013 (Maisan)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with some remarks to increase the course duration and further subjects that will assist in the bee keeping business.

Extension Program on Bee Keeping

May 28 -30, 2013 (Babel)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with some remarks to increase the course duration and further subjects that will assist in the bee keeping business.

Extension Program on Bee Keeping

June 11 -13, 2013 (Wasit \ Tajidee)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with thanks.

Development Program of Skills and Knowledge of Rural Women on Beekeeping

May 28 -30, 2013(Baghdad)

A verbal evaluation was conducted in order to obtain the point of views of the farmers (Participants) with regards to course content and on-site training and how effective was it to them, the responses came positively with some remarks to increase the course duration and further subjects that will assist in the bee keeping business.

Extension Program on Bee Keeping Problems for Rural Junior and Youth

June 3-5, 2013 (Kirkuk)

A verbal evaluation was conducted in order to obtain the point of views of the Participants with regards to course content and on-site training and how effective was it to them, the responses came positively with some remarks to increase the course duration and further subjects that will assist in the bee keeping business.

Purification of Seed Production Fields

22-24 September, 2013 (Najaf)

A verbal evaluation was conducted in order to obtain the point of views of the Participants with regards to course content and on-site training and how effective was it to them, the responses came positively with no remarks.

Agricultural Waste Recycling and Production of Organic Fertilizer (Compost)

29-31 October, 2013 (Najaf)

A verbal evaluation was conducted in order to obtain the point of views of the Participants with regards to course content and on-site training and how effective was it to them, the responses came positively with no remarks.

Zero Tillage Machinery Training Course Report
04 – 07 November, 2013 (Erbil)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	3.32
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	4.11
Clarity of course objectives 1=Not clear 5=Very clear	2.98
Level of lectures 1=Too basic 5=Just right	4.3
Time allocated for discussions 1=Too short 5=Just right	3.89
Interaction with participants enrolled in the course 1=Very low 5=Very high	4.65
Overall, how would you rate this course 1=Poor 5=Excellent	3.90

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	3.88
Usefulness of Lectures 1=not useful 5=useful	4.54
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	4.21
Usefulness of the technical field/lab visits 1=not useful 5=Useful	2.99

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.77
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	3.7
Handouts and material 1=Not useful 5=Very useful	4.62

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	4.68
Travel arrangements	4.42
Quality of the accommodation	3.76
Payment of allowance on time	4.1
Transportation	4.8
Lecture rooms	4.63

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

- know the importance and Characterization of CAand Elements of ZT Technology

2. Suggestions for future improvement of the course

- Repeat the course

Operating Mobile Seed Cleaners

4 – 6 August, 2013 (Erbil)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	4.37
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	3.91
Clarity of course objectives 1=Not clear 5=Very clear	4.36
Level of lectures 1=Too basic 5=Just right	4.12
Time allocated for discussions 1=Too short 5=Just right	3.1
Interaction with participants enrolled in the course 1=Very low 5=Very high	4.15
Overall, how would you rate this course 1=Poor 5=Excellent	4.24

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	3.5
Usefulness of Lectures 1=not useful 5=useful	3.76
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	3.64
Usefulness of the technical field/lab visits 1=not useful 5=Useful	2.36

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.55
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	4.11
Handouts and material 1=Not useful 5=Very useful	3.91

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	4.21
Travel arrangements	4.26
Quality of the accommodation	4.11
Payment of allowance on time	4.13
Transportation	4
Lecture rooms	3.82

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

- Fogging process wheat
- Identify the fogging machine wheat and their parts and maintenance roads.

2. Suggestions for future improvement of the course

- make a new courses in order to discuss the problems we face and ways to solve them
- Repeat the course as well as its importance to the work of other training courses involving all areas of Agricultural Extension

Operating Mobile Seed Cleaners

08 to 10-Sep, 2013 (Sulaimanya)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	4.27
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	3.91
Clarity of course objectives 1=Not clear 5=Very clear	4.36
Level of lectures 1=Too basic 5=Just right	4.72
Time allocated for discussions 1=Too short 5=Just right	3.1
Interaction with participants enrolled in the course 1=Very low 5=Very high	4.55
Overall, how would you rate this course 1=Poor 5=Excellent	4.64

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	3
Usefulness of Lectures 1=not useful 5=useful	5
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	2.64
Usefulness of the technical field/lab visits 1=not useful 5=Useful	2.36

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.91
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	4.91
Handouts and material 1=Not useful 5=Very useful	4.91

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	3.91
Travel arrangements	4.36
Quality of the accommodation	4.1
Payment of allowance on time	4.73
Transportation	4.64
Lecture rooms	4.82

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

- Fogging process wheat
- Identify the fogging machine wheat and their parts and maintenance roads.

2. Suggestions for future improvement of the course

- make a new courses in order to discuss the problems we face and ways to solve them
- Repeat the course as well as its importance to the work of other training courses involving all areas of Agricultural Extension

Operating Mobile Seed Cleaners

29 Sep - 01 Oct, 2013(Dohuk)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	3.27
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	3.21
Clarity of course objectives 1=Not clear 5=Very clear	4.76
Level of lectures 1=Too basic 5=Just right	4.12
Time allocated for discussions 1=Too short 5=Just right	4.1
Interaction with participants enrolled in the course 1=Very low 5=Very high	4.2
Overall, how would you rate this course 1=Poor 5=Excellent	4.1

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	4
Usefulness of Lectures 1=not useful 5=useful	5
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	3.54
Usefulness of the technical field/lab visits 1=not useful 5=Useful	3.36

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.21
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	4.11
Handouts and material 1=Not useful 5=Very useful	4.51

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	4.2
Travel arrangements	4.16
Quality of the accommodation	3.14
Payment of allowance on time	4.73
Transportation	4.24
Lecture rooms	4.22

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

- Fogging process wheat
- Identify the fogging machine wheat and their parts and maintenance roads.

2. Suggestions for future improvement of the course

- make a new courses in order to discuss the problems we face and ways to solve them
- Repeat the course as well as its importance to the work of other training courses involving all areas of Agricultural Extension

Date Palm Orchards Service Workshop

Basra 30/Jun - 04 / Jul 2013

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	3.44
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	4.23
Clarity of course objectives 1=Not clear 5=Very clear	4.43
Level of lectures 1=Too basic 5=Just right	3.11
Time allocated for discussions 1=Too short 5=Just right	3.67
Interaction with participants enrolled in the course 1=Very low 5=Very high	3.66
Overall, how would you rate this course 1=Poor 5=Excellent	4.35

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	4
Usefulness of Lectures 1=not useful 5=useful	3
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	3.5
Usefulness of the technical field/lab visits 1=not useful 5=Useful	3

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	4.12
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	3.97
Handouts and material 1=Not useful 5=Very useful	3.67

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	3.87
Travel arrangements	3.95
Quality of the accommodation	4.22
Payment of allowance on time	4.11
Transportation	4.47
Lecture rooms	4.5

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course.

- Scientific bases in the palm of service in general
- Biocontrol and areas of application
- Chemical control and their times

- Suggestions for future improvement of the course
- The practical application of this information in the foregoing palm groves or in private laboratories.

Date Palm Orchard Service Workshop for the Farmers
25-29 August, 2013 (Basra)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	4.03
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	4.11
Clarity of course objectives 1=Not clear 5=Very clear	4.49
Level of lectures 1=Too basic 5=Just right	3.52
Time allocated for discussions 1=Too short 5=Just right	4.17
Interaction with participants enrolled in the course 1=Very low 5=Very high	3.5
Overall, how would you rate this course 1=Poor 5=Excellent	4.20

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	4.5
Usefulness of Lectures 1=not useful 5=useful	4.7
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	4.3
Usefulness of the technical field/lab visits 1=not useful 5=Useful	4.12

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.84
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	4.29
Handouts and material 1=Not useful 5=Very useful	3.87

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	4.22
Travel arrangements	3.43
Quality of the accommodation	4.11
Payment of allowance on time	4.32
Transportation	4.47
Lecture rooms	4.25

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course.

- Reality palm cultivation in Iraq
- The proliferation of palm Paljmar
- Fertilization and control
- Suggestions for future improvement of the course
- The multiplication of the practical side of the field visits.

Extension program on Organic Fertilizers and how to be Manufactured in the Field

June 1-5 2013, Al Mashtal Farm, Maisan - Iraq

A verbal evaluation was conducted in order to obtain the point of views of the Participants with regards to course content and on-site training and how effective was it to them, the responses came positively with no remarks.

Plant Breeding Training Course

1 – 5 September, 2013 (Erbil)

Item/rating/percentage	AVERAGE SCORE
Relevance of the course to your job 1=Not relevant 5=Very relevant	4.33
Accomplishment of subject matter 1=Inadequate 5=Very comprehensive	3.98
Clarity of course objectives 1=Not clear 5=Very clear	3.90
Level of lectures 1=Too basic 5=Just right	4.11
Time allocated for discussions 1=Too short 5=Just right	3.87
Interaction with participants enrolled in the course 1=Very low 5=Very high	3.94
Overall, how would you rate this course 1=Poor 5=Excellent	4.06

Schedule and time allocation:

Item/rating/percentage	AVERAGE SCORE
Percentage of Time allocated to lectures 1=Too short 5=Too long	4.12
Usefulness of Lectures 1=not useful 5=useful	4.6
Percentage of Time allocated to the technical field/lab visits 1=Too short 5= Just right	3.96
Usefulness of the technical field/lab visits 1=not useful 5=Useful	3.90

Teaching aids:

Item/rating/percentage	AVERAGE SCORE
Effectiveness of teaching aids in general 1=Not effective 5=Very effective	3.42
Clarity of slides/overheads/Powerpoint 1=Not clear 5=Very clear	3.75
Handouts and material 1=Not useful 5=Very useful	4,15

Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	AVERGARE SCORE
Pre-course communication	4.2
Travel arrangements	3.16
Quality of the accommodation	4
Payment of allowance on time	3.76
Transportation	3.5
Lecture rooms	3.44

Your comments and suggestions on the course:

Please state the most important ideas/concepts that you learned from this course

- Purification of seed.
2. Suggestions for future improvement of the course
- The training course should be held between April and May.
 - Increase the field days.

3.3 List of Materials

Date Palm Field Gen Bank
Data Palm TC ICARDA
Bioreactors
Irrigation and Water Management
Irrigation Terminology
Livingston Soil Field
Livingston Water
Salinity Data Anbar
Sprinkler Precipitation
Water Analysis
Worksheet 1
Reading Soil Moisture
Center Pivot Workbook
Center Pivot Worksheet 2
Conversion of Pivots to LESA
Efficiencies and Nozzles 2
Forage Field Bank Graphs
Unites Conversion
Irrigation Terminology
Evaluation of Program Success and Telling Others
Use of Local Groups and Local Leadership in Setting Priorities
Planning for Educational Outreach
Use of Local Groups and Local Leadership in Setting Priorities
Use of Local Groups and Local Leadership in Setting Priorities; Erbil Training Outline
Introduction to Irrigation Pumps
Irrigation Terminology Pumps
PowerPoint presentation: Extension Program and Field Training on the Use of Renewed Energy and
Distillation of Water Irrigation Systems in Vegetable Crops in Desert Area (Arabic
Date Palm Field Gen Bank; Data palm TC ICARDA
Bioreactors
Aswan
Tissue-lab Manual
Information and Communication Technology for Extension
Linkage between Universities, Ministry of Agriculture and Water Resources
BLS course introduction and BLS ROAD MAP I
Wheat Farm-Household Questionnaire Instrument and The Agriculture Strategy (Arabic Version)
General Agronomy ICARDA Trials; Machinery Training Course and Introduction to Conservation Agriculture
Seed Cleaner Manual
The establishment and Cultivation of Modern Palm Gardens (Arabic Version)
Palm Cultivation Modern (Arabic Version)
Modern Irrigation (Arabic Version)
Integrated Management of Date Palm Pests (Insect and Spiders) (Arabic Version)
Biological Pests Control (Arabic Version)
The Role of the Ministry of Agriculture in Palm Pest Control (Arabic Version)
Handling and Storage of Dates (Arabic Version)
Guide- Nutrient Deficiency; Common- Diseases of cereals; Cereal – Cysnematodes