



Technical Report

Training Course

on

Soil Analysis, Chemistry, Physics and Fertility

29 Oct, 2017 - 02 Nov, 2017

Jordan, Amman

Organized by

International Center for Agricultural Research in the Dry Areas - ICARDA

Funded by

Japan International Cooperation Agency - JICA

and

Government of Sudan

Table of contents

EXECUTIVE SUMMARY	3
GENERAL OVERVIEW	4
COURSE STRUCTURE	Error! Bookmark not defined.
COURSE IMPLEMENTATION.....	Error! Bookmark not defined.
Annex I: Trainers.....	4
Annex III: General Course Evaluation	5
Annex IV Comments and suggestions	7

EXECUTIVE SUMMARY

Name of the project

Capacity Development for Agriculture for Afghanistan and Regional Countries

Partners

International Center for Agricultural Research in the Dry Areas - ICARDA

Purpose of the project

The objective of the course is to enhance capacity development of government officials and researchers who are engaged in agricultural development mainly in Afghanistan. They will gain knowledge and information about the following topics: Genebank and Germplasm Management, Soil Analysis, Soil Chemistry, Soil Physics, Soil Fertility, Seed Health Testing, Seed processing and Storage, Cereal Crops Breeding, On Farm Water Management, Seed Production, Farm Operation Management and Extension Methods.

Specific objectives of the training course on contemporary approaches to extension

- Enhance theoretical knowledge on dryland soil physical and chemical states
- Learn advanced field experimental design sampling and assessment methods
- Learn advanced soil laboratory analyses and result interpretation

Specific outputs

Seventeen professionally-trained national agricultural research trainees: 10 from Afghanistan, 2 from Jordan and 6 from a range of other countries (3 from Sudan, 1 from Egypt, and 1 from Morocco) on Improving soil analysis techniques in agricultural systems with emphasis on dry land agriculture. While 10 Afghans, 2 Jordanian, 1 Moroccan and 1 Egyptian were funded by JICA, the remaining participants were sponsored by the project in cooperation with Government of Sudan.

GENERAL OVERVIEW

To enhance capacity development of government officials and researchers who are engaged in agricultural development mainly in Afghanistan.

Annex I: Trainers

Trainers	Name & Surname	Institution	E-mail
1	Stefan Strohmeier	ICARDA	s.strohmeier@cgiar.org
2	Luma Abu Atileh	ICARDA	L.AbuAtileh@cgiar.org
3	Awni Taimeh	JU	ataimeh@ju.edu.jo
4	Mnir Jamil Mohammad Rusan	IPNI	mrusan@just.edu.jo

Annex III: General Course Evaluation

1. Content

Item/rating/percentage	Overall Average
The training course is relevant to my job	4.88
The subject matter of the training was understandable	4.56
The objectives of the course were clearly communicated	4.56
The level of the lectures was appropriate	4.44
The time allocated for discussions was appropriate	4.00
The possibilities for interaction with participants enrolled in the course was appropriate	4.38
Overall, how would you rate this course?	4.56

2. Schedule and time allocation

Item/rating/percentage	Overall Average
The time allocated to lectures was appropriate	4.13
The lectures were useful	4.63
The time allocated to the technical field/lab visits was appropriate	4.19
The technical field/lab visits were useful	4.63

3. Teaching and/or Learning aids

Item/rating/percentage	Overall Average
The use of teaching aids was effective	4.69
The teaching materials and presentations were clear	4.44
The handouts and additional material provided were useful	4.44

4. Administrative arrangements

Item/rating/percentage	Overall Average
Pre-course communication	4.31
Travel arrangements	3.56
Quality of the accommodation	3.75
Payment of allowance on time	3.69
Transportation	3.31
Comfort and suitability of the lectures rooms	4.69

Annex IV Comments and suggestions

a) Please state the three most important ideas/concepts that you learned from this course:

- الطرق العلمية الصحيحة لآخذ عينة التربة
- اختيار زوى اخصص للمحاضرات
- اختيار الماده المقدمه فى المحاضرات
- اختيار مكان المحاضرات فى نفس مكان الاقامه
- Relation between plant,water and soil nutrient in soil What is soil in agriculture
- Soil diagnosis in formation
- Fiald soil sample
- Short course time. Many topics discussed with short time to understand them all in one week. The training course is clear. This training is relevant to my job.
- It will be better also to improve the biological analysis, NPK and plant analysis that is a good point of this subject.
- Useful training. I learn about new technologies in soil analysis. Important course for every soil specialist. But I hope that this training will be at least for two weeks in the future.
- Essention neutrent in soil
- Physical propertis, insoil
- Soil texture and soil profayl discrption
- Verygood
- Good training
- Essential nutrients in soil
- Physical properties in soil
- Soil texture and soil profile description
- N/A
- N/A
- Fantastic training. All the information provided were useful.
- Really useful training course. Please, continue this course for us because we need to study about soil analysis. Thank you
- This training course was really useful. We learned a lot thanks to this. If you can continue this course to improve our specialization will be really appreciated.

- Relation between soil water and plant analysis texture and k
- Thanks Thanks to all the organizations like ICARDA, JICA and Government of Jordan. We appreciated also the work of Ms. Luma, Mr. Munir, Mr. Awni, Mr. Stefan and so on. It was very useful to know new technologies about soil analysis and we will share it with our colleagues in our countries. Thanks.

b) Suggestions for future improvement of the course:

- زياده ايم دوره التدريبه
- Time will longardean this curse
- I want more time because the time is too short. If we have more time, we well able to moor understand abuot soil
- More training course for soil analysis
- Shart time. Improve the time for next training.

c) Do you recommend this course to be repeated in the future?

Yes: 93.75%

No: 6.25%