

Regional Workshop on

Evaluation of the Farmer Field School (FFS) for Anchoring Sustainable Integrated Pest Management By Small Farm Holders in the NENA Region

IRAQ جمهورية العراق



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Tunis Oct. 26-28/ 2015



Organisation des Nations Unies
pour l'alimentation et l'agriculture

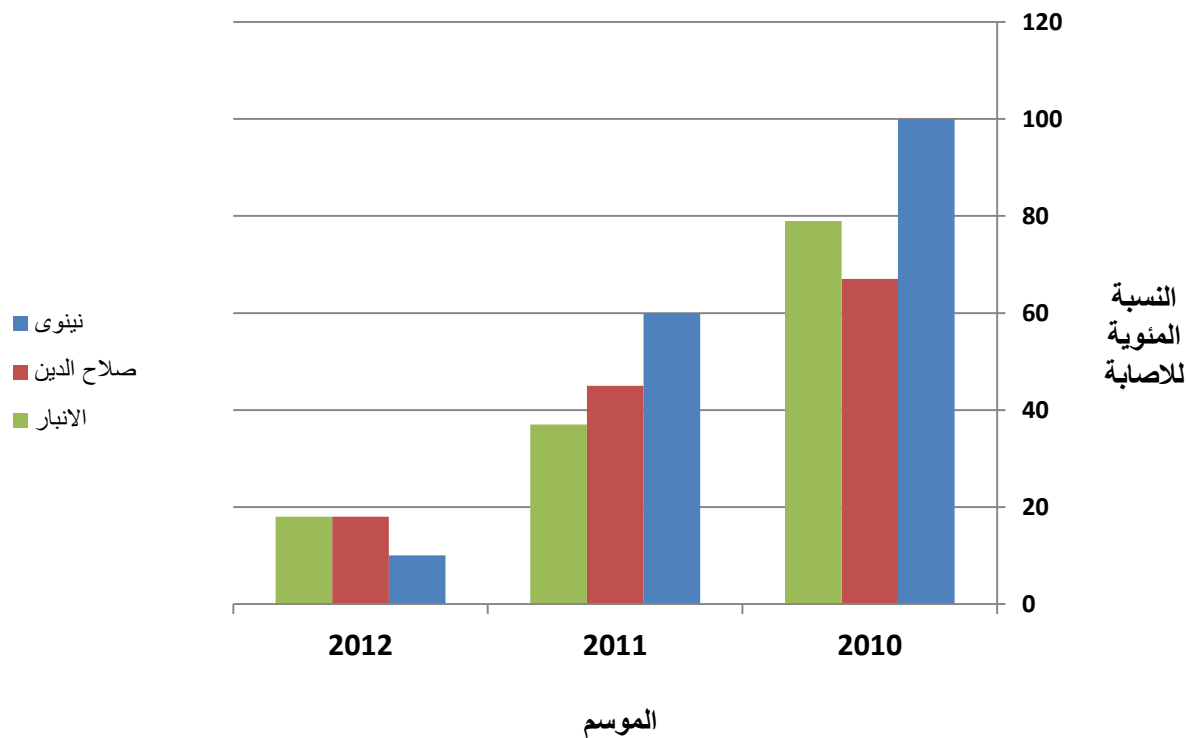




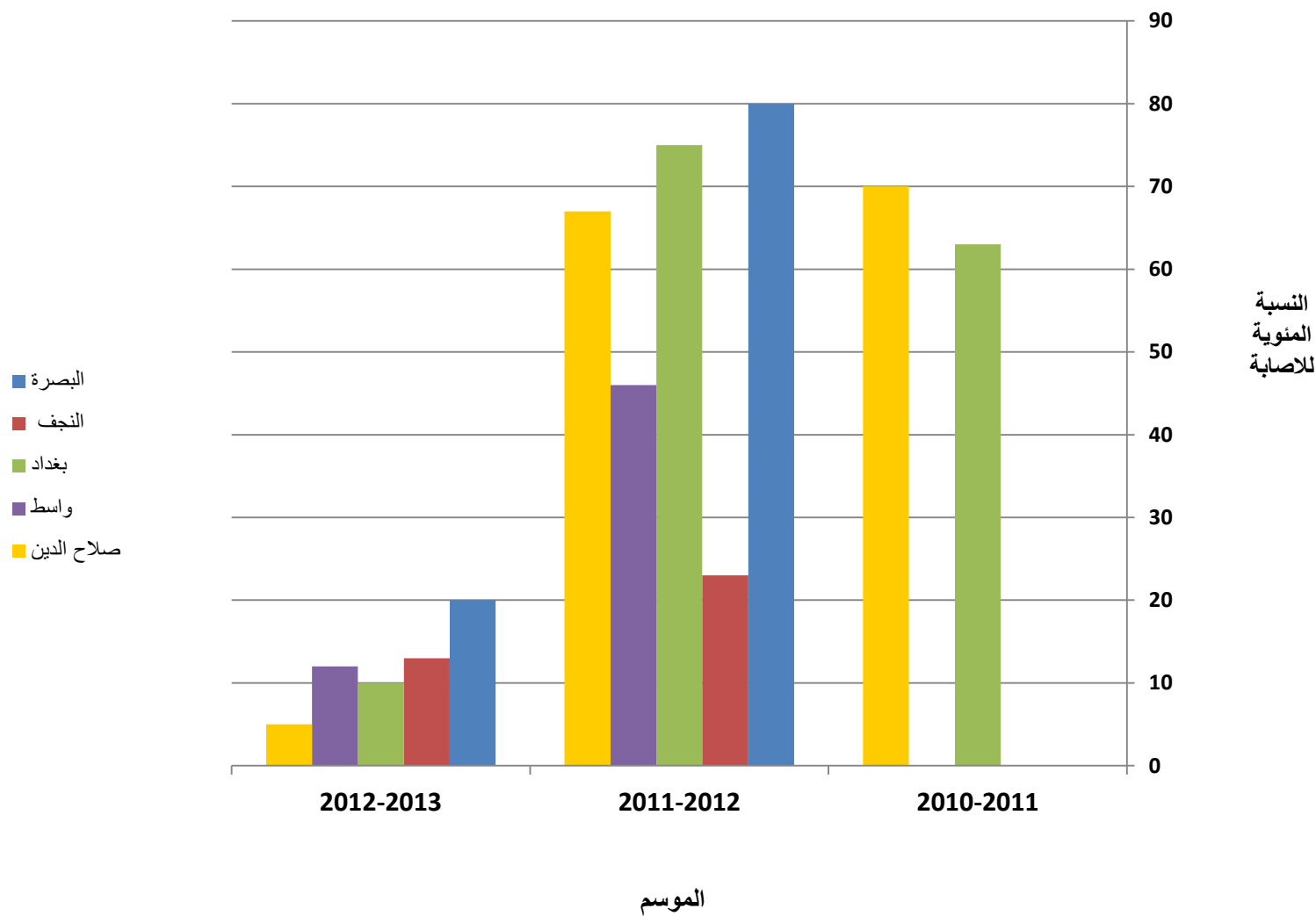
FAO regional IPM project/Tuta absoluta (by the former National Project Coordinator)

- ☐ **Iraq unfortunately did n't join FAO Tuta Regional Project but It established an IPM National Project for three years which was designed to validate the effectiveness of commercially available techniques as well as development of a national IPM model.**
- ☐ **A national PhD dissertation was completed on development of a national Tuta IPM program which resulted on registration of eight (8) important parasitoids & predators as well as assessment and recommendations of IPM package.**
- ☐ **Below we share with you some data on the epidemiology of Tuta in Iraq pre & post the implementation of the National IPM Program.**

الحالة الوبائية لحفار الطماطم *Tuta absoluta* في حقول الطماطم المكشوفة للأعوام 2010-2013



الحالة الوبائية لحفار الطماطم *Tuta absoluta* في بيوت الطماطم المحمية للأعوام 2010-2011-2013




Tuta National IPM package





Situation of FFS in the country (past and present)

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- ❖ Prior to this project Iraq extension activities were conducted on traditional bases.
 - ❖ Iraq formerly had joined the regional project at the end of 2009.
 - ❖ According to the submitted national work plan the project was officially initiated on **Jan.16th 2010 & coordination between ICARDA & FFS project started on 2010-2011.**
 - ❖ **Twenty six (26)** variety FFSs were established which targeted **496** (beneficiary farmers) on the major crops **Wheat (Rain Feed & Irrigated) Date Palm – Citrus, Protected & Open Fields Tomato, Cucumber & Watermelon.**
 - ❖ Numerous activities were implemented they are namely:
 - Training (Nationally & abroad) Over a **104** Facilitators & Potential Facilitators.
 - Qualifying **6** Master Trainers (TOT) on IPM Techniques & FFS Concept & Methodology.
 - Co Financing Special Advance training of **12** Nationals on IPM, Bio-Fertilizers, Organic Farming Legislations, Bio agents Production Technology & Composting Techniques.
 - ❖ Conducting **20** different Field's Day.
 - ❖ On Feb. 23-26 -2014 an Advance Training Course on FFS Approach and future perspectives was conducted for TOTs .
 - ❖ **Significant Reduction on Chemical Pesticides & Fertilizers (50- 100 %) & Consequently a profound cost Decrease as well as noticeable Increase in the Yields.**
 - ❖ Endless Problems & Obstacles namely; Security, Political Instability, Farmer's Irrelevant daily problems, Subsidy Policy, Lack of National Extension Foundation, Shortage of Human Resources, Over involvement of NPD & his assistance . **Currently we are suffering from shortage of Funds.**

List of FFS/IPM & Their Distribution over Different Governorates of Iraq

No.	Governorate	Region	Crop	No. Farmers
1	Baghdad	Tarmiya	Date palm & Citrus	16
2	Dayalaa	Buhriz	Date palm & Citrus	15
3	Karbalaa	Al-Hur	Date palm & Citrus	20
4	Diwaniya	Salahiya	Wheat / Irrigated Sys.	20
5	Nineveh	Alkush	Wheat/ Rain Fed	19
6	Nineveh	Talafar	Wheat/ Rain Fed	20
7	Erbil	Darash	Wheat / Rain Fed	16
8	Basrah	Nashwa	Tomato/ protected Houses	25
9	Thi Qar	Garaf	Tomato/ protected Houses	21
10	Muthanna	Warkaa	Cucumber /protected Houses	20
11	Babel	Almashroa	Tomato/ protected Houses	20
12	Dayalaa	Muqdadia	Watermelon/ Open Field	20
13	Salah aldeen	Balad	Tomato/ protected Houses	20
14	Nineveh	Eadhiya	Tomato/ Open Field	20
15	Diwaniya	Saniya	Date palm	20
16	Nineveh	faida	Tomato/ Open Field	20
17	Basrah	Shat alarab	Tomato/ protected Houses	24
18	Thi Qar	Garaf	Cucumber / protected Houses	20
19	Thi Qar	Garaf	Cucumber / protected Houses	20
20	Muthanna	Warkaa	Cucumber /protected Houses	20
21	Muthanna	Warkaa	Cucumber /protected Houses	20
22	Muthanna	Warkaa	Cucumber /protected Houses	20
23	Salah aldeen	Balad	Stone fruit	20
24	Babel	Almashroa	Cucumber / protected Houses	20
25	Babel	Almashroa	Cucumber/ protected Houses	20
26	Al anbar	Heet	Cucumber/ protected Houses	20
	Total			496



IPM/ FFS
GTFS/REM/070-ITA-IRQ
2012 -2010



Brief impact (with figures) of the IPM-FFSs

Table 1: First Season Outcome of Dywaniya wheat FFS 2011.

No	Activity	IPM	Local practice (LP)
1	Fertilizer (Urea)	100 kg/ D*	200 kg /D
2	Fertilizer (NPK)	80 kg /D	160 kg / D
3	Insecticides	None	1 application
4	Herbicides	None	1 application
5	Total cost	32500 ID**	85000 ID
6	Yield	710 kg /D	625 kg / D
7	Total value	511200	450000
8	Net Income	478700 ID	365000 ID

*D= Donum 2500 m²

**ID= Iraqi Dinar

***According to local price 720000 ID / to

Table 2: Output of first season of Nineveh /Talaafar wheat FFS June 2011.

No	Activity	IPM	Local practice (LP)
1	Fertilizer (Urea)	60 kg/ D	200 kg /D
2	Fertilizer (NPK)	40 kg /D	200 kg / D
3	Insecticides	None	None
4	Herbicides	None	1 application
5	Total cost	18000 ID	85000 ID
6	Yield	600 kg /D	500 kg / D
7	Total (Gross) value	432000 ID	360000 ID
8	Net Income	414000 ID	275000 ID

*D= Donum 2500 m²

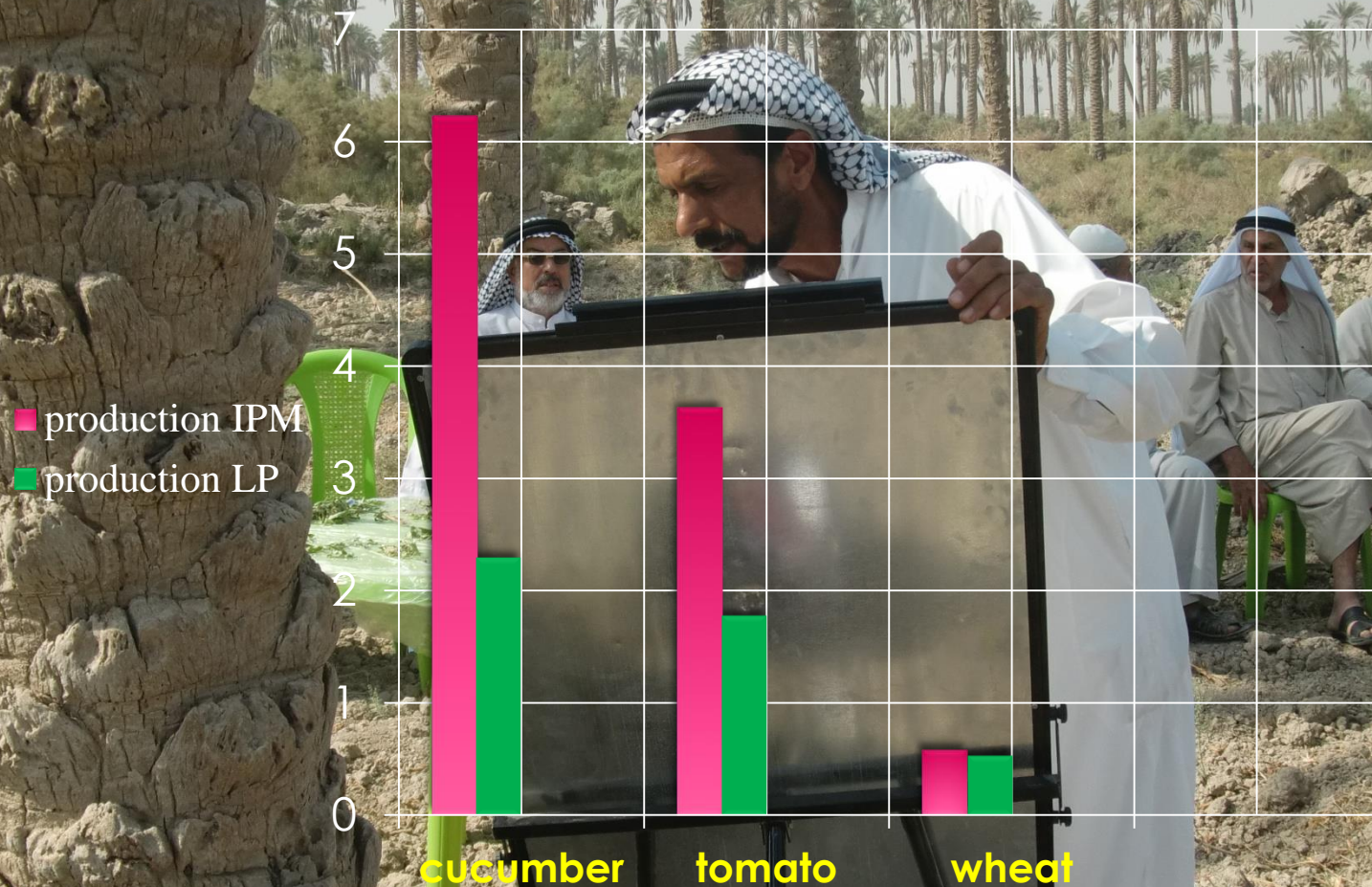
**ID= Iraqi Dinar

***According to local price 720000 ID / to

Project Output in terms of Pesticides and & Chemical Fertilizer Reduction (Farmer's Fields Data)

[illegible]

Yield Comparison between IPM and LP for selected crop



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A decorative palm frond is positioned on the left side of the slide, extending from the top to the bottom.

4. Institutional capacities and infrastructure in the country to sustain the IPM and FFS

Distribution of Trainees According to Governorates (Abroad)

No.	Governorate	No. of trainees
1	Baghdad	5
2	Dyiala	3
3	Babel	2
4	Kerbella	5
5	Najef	5
6	Dywanian	5
7	Wassit	4
8	Almuthana	2
9	Thi Qar	2
10	Messan	1
11	Basra	2
12	Alanbar	1
13	Salah Aldin	2
14	Kirkuk	1
15	Neniveh	5
16	erbil	1
	Total	46

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Distribution of Trainees According to Governorates (national)

No.	Governorate	No. of trainees
1	Baghdad	6
2	Dyiala	2
3	Babel	4
4	Kerbella	4
5	Najef	4
6	Dywanian	5
7	Wassit	4
8	Almuthana	5
9	Thi Qar	5
10	Messan	4
11	Basra	4
12	Alanbar	2
13	Salah Aldin	4
14	Kirkuk	3
15	Neniveh	4
	Total	60

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Background and context of IPM in the country;

Some of IPM practices at FFS Sites



Soil Solarization

Use of Bio Agents at FFS Sites



**Compost + *Trichoderma* sp.
On Protected Tomato & Cucumber
Production**



Tuta IPM package



Gender Participation



2013/2/15 10:13

Successful Story





**Farmer at Kerbela FFS Releasing Clitostethus sp.
to Control Jasmine Whitefly on Citrus**

Conclusion

- ❑ This Project and its outputs were made possible through the Generous Trust Fund from the Italian Government. We are grateful to them twice for the fund first and for choosing the Wright Project second.
- ❑ Based on Field's Data That **IPM/FFS Approach** have Passed "The **Validation Stage**" **Successfully** because it had been tested under diverse conditions from Basrah (down South) to Erbil (up North).
- ❑ Today All Stakeholders; Decision Makers Univ. Prof., Extension, Pl. Prot. Specialists and Farmers Knew & Believe in IPM & FFS.
- ❑ For The First time In Iraq We Heard Some Farmers Requesting Skills & Knowledge Instead of Chemical Subsidy.
- ❑ Our Field Data had proven that IPM/ FFS Program is the Ideal extension approach for **Wheat**, Protected Vegetable & **Dates Production Problems**.
- ❑ It was too early for Iraq and other countries whom joined the regional project late to terminate the project because we needs more time and experience and will have a "**Gap**" before we can conduct a national project as a self dependent.

Recommendations

- ❑ Sustainability of IPM/FFS approach could be vitalized by a strong coordination system between National Programs and New Regional Project through which we can attract other countries in the region.
- ❑ On the regional level there are a wide range accumulated knowledge and experience and has to be utilized by other countries through a feasible System.
- ❑ Since we believe in the continuity of the Regional Project we suggest contacting regional organisations such as AOAD (Arab leagues) to financially support such vital project.

Thanks for your kind Attention

