

Project Design Matrix (PDM)

Project Title (provisional): Project on Development of Efficient Irrigation Techniques and Extension in Syria

Project Period: 2005 ~ 2007

Target Area: to be decided Target group: Agricultural engineers, extension workers, and farmers in the pilot area(s)

Version 0.0

Inputs	
Japanese Side:	Syrian Side:
<p>(1)-1 Review of the past and existing research activities of ANRR.</p> <p>(1)-2 Conduct preliminary study on the selection of the pilot area(s).</p> <p>(1)-3 Conduct base-line survey of the pilot area(s). (eg. Field measurement of salinity)</p> <p>(1)-4 Selection of farmers for water management by farmer groups.</p> <p>(1)-5 Prepare detailed plan of operation.</p> <p>(1)-6 Establishment of the pilot demonstration farms.</p> <p>(1)-7 Conduct feasibility study in terms of the pilot demonstration farms.</p> <p>(2)-1 Review the past and present training activities.</p> <p>(2)-2 Identify needs and existing problems in terms of training activities.</p> <p>(2)-3 Establish practical training curriculum and teaching materials.</p> <p>(3)-1 Review the past and present extension activities.</p> <p>(3)-2 Identify needs and existing problems in terms of extension activities.</p> <p>(3)-3 Modify and improve the extension materials.</p>	<p>1. Personnel assignment of counterparts</p> <p>2. Provision of facilities and equipment</p> <p>- Head quarters of ANRR, including office space for Japanese experts.</p> <p>- Existing research, extension and training facilities and equipment.</p> <p>3. Local cost</p> <p>Project implementation cost</p> <p>- Recurrent cost for the project</p>
	<p>Pre-conditions:</p> <p>1. Security is maintained in the target area.</p> <p>2. Farmers' cooperation and active participation to the project.</p>

プロジェクト・デザイン・マトリックス (PDM)

プロジェクト名: シリア国節水灌漑農業普及計画

プロジェクト期間: 2005年3月~2008年3月

プロジェクト地域: ルーラルダムスカス、ダラ、ハマ県 ターゲットグループ: プロジェクト地域の農業技術者、普及員、農民

Version 1.0
2005.3

プロジェクトの要約		指標		指標の入手手段		外部条件	
最終目標 シリア国のプロジェクト関連流域で、持続的な水利用が行われる。	1) 関連流域での灌漑使用水量が、20xx年までにX%減少する。	1) 現地調査による情報 1-関係者への調査/インタビュー結果	—	—	—	—	—
上位目標 プロジェクト地域の灌漑農地において、水量損失が減少することにより灌漑効率が向上する。	1) プロジェクト地域での灌漑使用水量が、20xx年までにX%減少する。 2) プロジェクト地域での灌漑農業収量が、プロジェクト実施後も持続 (or 向上) する。	1) 現地調査による情報 1-関係者への調査/インタビュー結果	—	—	—	—	—
プロジェクト目標 プロジェクトサイトでは、訓練された研修/普及要員の支援によって、各農作物に適切な量の灌漑用水が使用されるようになる。	1) プロジェクトサイトでの灌漑使用水量がxx%減少する。 2) プロジェクトサイトでの灌漑農業収量が維持 (or 向上) する。	1) プロジェクトサイトでの現地調査による情報 1-プロジェクトサイト関係者への調査/インタビュー結果	—	—	—	—	—
成果 (1) プロジェクトサイトの状況を反映した圃場レベルの灌漑水管理手法が確立される。 (2) プロジェクト地域の農業技術者、普及者、中核農家が、(プロジェクトが奨める) 灌漑水管理技術を各灌漑農家に普及できるようにする。 (3) パイロット地域の農民が、(普及支援を得て) 栽培作物それぞれにに応じた節水灌漑手法を独力で適用できるようにする。	(1) 最適な節水灌漑システムの計画・設計、及び水管理手法が整備され、関係者の間で使用されるようになる。 (2)-1:xx%の研修生 (農業技術者、普及員、農家) が研修の期待水準に達する。 (2)-2: (xx%以上の) 農民が、普及員の技術レベルに満足するようになる。 (3)-1:プロジェクトサイトのxx%以上の圃場で、適切な灌漑機器が設置され、使用されるようになる。 (3)-2:プロジェクトサイトのxx%以上の農民が作物毎の適正使用水量を把握している。 (3)-3: プロジェクトサイトのxx%以上の農民が節水の必要性を理解している。	(1) マニュアル等の使用環境、使用状況に関する実地調査 (2)-1: 達成度テスト、対象者へのインタビュー (2)-2: 客観的観察、及び農家へのインタビュー調査 (3)-1: フィールド調査 (3)-2: 農民インタビュー調査/質問票調査 (3)-3: 農民インタビュー調査/質問票調査	—	—	—	—	—

プロジェクト・デザイン・マトリックス (PDM)
 プロジェクト名: シリア国節水灌漑農業普及計画
 プロジェクト地域: ルーラルダムカス、ダラ、ハマ県 ターゲットグループ: プロジェクト地域の農業技術者、普及員、農民

Version 1.0
 2005. 3

投入	
日本側	シリア側
<p>活動</p> <p>(1)-1 ANRR での過去から現行のリサーチ活動内容をレビューする。</p> <p>(1)-2 プロジェクト地域に関するベースラインサーベイを行う。</p> <p>(1)-3 プロジェクトサイト選定のための予備的調査を実施する。</p> <p>(1)-4 プロジェクトの実行計画を確立する。</p> <p>(1)-5 灌漑水管理のための農民組織の結成 (可能性) を検討する。</p> <p>(1)-6 プロジェクトサイトにおいて、パイロット的なデモ圃場の設置する。</p> <p>(1)-7 プロジェクト地域に相応しい、圃場レベルの灌漑水管理法を検討する。</p> <p>(1)-8 節水灌漑実現のための水管理等に関するマニユアル、ガイドラインを作成する。</p> <p>(2)-1 過去から現行の研修活動をレビューする。</p> <p>(2)-2 研修に関わる課題とニーズを明らかにする。</p> <p>(2)-3 実践的な研修活動のカリキュラムと教材を作成する。</p> <p>(3)-1 過去から現行の普及活動内容を検討する。</p> <p>(3)-2 普及に関わる課題とニーズを明らかにする。</p> <p>(3)-3 実践的な普及活動のカリキュラムと教材を作成する。</p>	<p>1. 専門家派遣 (1) 長期専門家 *総括/灌漑 *農業普及 *研修 (2) 短期専門家 農業経済/営農 灌漑システム設計 社会経済</p> <p>2. 機材供与 プロジェクト運営用車両 事務機器類 研修関連機材 普及関連機材 デモ圃場整備のための関連機材</p> <p>3. 研修 1) 日本国内研修 2) 第3国研修 3) 国内研修</p>
	<p>1. カウンターパートの配置</p> <p>2. プロジェクト実施に必要な施設・機材の提供 日本側プロジェクトチームのための作業スペース、機材、施設等 日本側供与機材のための保管スペース、およびその設置 現在使用中の、リサーチ、研修、普及活動に活用中の諸機材等の活用</p> <p>3. ローカルコスト プロジェクト実施のための運営費等、シリア側負担コスト</p>
	<p>プロジェクト地域の水資源事情が、現状に比べて急激に悪化しない プロジェクト地域の営農環境が、急激に悪化しない</p> <p>前提条件 各関係灌漑技術者、普及員等が、プロジェクトの要請にしたがって、プロジェクト活動に参加する。</p>

Project Design Matrix (PDM)

Project Title : Project on Development of Efficient Irrigation Techniques and Extension in Syria
Target Area: Rural Damascus, Dara and Hama Provinces
Target group: Irrigation engineers, extension workers, and farmers in the project areas

Project Period: March 2005 – March 2008
Version 1.0

Date: March 2005

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Super Goal: Sustainable irrigation water use is achieved in the basins concerned.</p>	<p>1) Total amount of irrigated water in the basin decreased xx % by the end of 20XX.</p>	<p>- Field measurement in the areas - Investigations/questionnaire to farmers</p>	<p>---</p>
<p>Overall Goal: Water use efficiency is improved, and water loss is reduced in the farmers' fields of project areas.</p>	<p>1) Total amount of irrigated water in the project areas decreased xx % by the end of 20XX. 2) Crop production in the project areas is sustained (and/or improved) after the commencement of the Project.</p>	<p>- Field measurement in the areas - Investigations/questionnaire to farmers</p>	<p>The efficient irrigation techniques are spread widely within the basins concerned. Farmers within the basins can purchase modern irrigation equipment easily as required in terms of quality and quantity. The outcomes obtained in the project spread and are utilized properly within the project areas. Farmers in the project areas can purchase modern irrigation equipment easily as required in terms of quality and quantity.</p>
<p>Project Purpose: Proper amount of irrigation water is used for each crop in the project sites, through providing adequate supports by strengthened training/extension activities.</p>	<p>1) Total amount of irrigated water in the project sites decreased xx % by the completion of the project. 2) Crop production in the project sites remains at the same level as before the commencement of the Project</p>	<p>- Field measurement at the sites - Investigations/questionnaire to farmers at the sites</p>	<p>Farmers in the project sites can purchase modern irrigation equipment easily as required in terms of quality and quantity.</p>
<p>Outputs: (1) Proper on-farm water management method is elaborated according to the local conditions in the project sites. (2) Irrigation engineers, extension workers and core farmers concerning the project, are able to transfer knowledge to farmers in terms of on-farm water management method. (3) Farmers in the project areas are guided so as to adopt efficient irrigation for each crop individually through providing extension services.</p>	<p>(1)-1: Manuals on design standard of efficient irrigation system and on-farm irrigation management are prepared and used by the relevant personnel. (2)-1: xx% of the trainees (irrigation engineers and extension workers) reaches the expected achievement level of each training item. (2)-2: Farmers are satisfied with skill and knowledge of irrigation engineers and extension workers in the project sites. (3)-1: Irrigation equipment for efficient irrigation are properly installed and operated in more than xx farmers' plots in the project sites. (3)-2: More than xx% of farmers recognizes the appropriate volume of irrigation water for each crop in the project sites. (3)-3: More than xx% of farmers understands the significance of water saving in the project areas.</p>	<p>(1)-1: Inspection for using condition of the prepared manuals and documents (2)-1: Achievement test and interview. (2)-2: Observation and monitoring on the farmers' opinion. (3)-1: Field observation (3)-2: Interviews/questionnaire to the farmers (3)-3: Interviews/questionnaire to the farmers</p>	<p>Trained irrigation engineers and extension workers do not leave from their duty. Marketing condition in the project sites do not aggravate drastically.</p>

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Project Title : Project on Development of Efficient Irrigation Techniques and Extension in Syria
 Target Area: Rural Damascus, Dara and Hama Provinces

Project Period: March 2005 – March 2008
 Version 1.0

Target group: Irrigation engineers, extension workers, and farmers in the project areas

Date: March 2005

Activities:		Inputs	
<p>(1)-1 Review past and present research activities of ANRR.</p> <p>(1)-2 Conduct a baseline survey of the project areas in which project sites are located.</p> <p>(1)-3 Conduct a preliminary study on the selection of the project sites.</p> <p>(1)-4 Prepare the detailed plan of operation of the project.</p> <p>(1)-5 Organize farmers' group(s) for introducing group water management if necessary.</p> <p>(1)-6 Establish the pilot demonstration farms in the project sites.</p> <p>(1)-7 Investigate suitable on-farm water management method for the project areas.</p> <p>(1)-8 Prepare manuals and/or guidelines on the water management of efficient irrigation.</p> <p>(2)-1 Review past and present training activities.</p> <p>(2)-2 Identify needs and confronted problems in terms of training activities.</p> <p>(2)-3 Improve the training curriculum and teaching materials.</p> <p>(3)-1 Review past and present extension activities.</p> <p>(3)-2 Identify needs and confronted problems in terms of extension activities.</p> <p>(3)-3 Improve the extension materials.</p>	<p><u>Japanese Side:</u></p> <p>1. Dispatch of Japanese experts (1) Long-term experts - Irrigation/Leader - Agricultural extension - Training</p> <p>(2) Short-term experts - Agricultural economy/Agronomy - Irrigation system - Socio-economy</p> <p>2. Provision of equipment - Cars to be used in the project - Office equipment to be used in the project - Audiovisual aids for training activities - Equipment for extension activities - Equipment and instrument for establishment of the demonstration farms</p> <p>3. Training 1) Counterpart Training in Japan - 1 to 2 persons a year</p> <p>2) Training and/or study tour of the third countries.</p> <p>3) Training in Syria</p>	<p><u>Syrian Side:</u></p> <p>1. Assignment of counterparts personnel</p> <p>2. Provision of facilities and equipment - Rooms and spaces necessary for installation and storage of the equipment provided by Japanese side. - Office spaces for the project team in the head quarters of ANRR and in each project area. - Existing research, extension and training facilities and equipment.</p> <p>3. Local cost</p> <p>Project implementation cost - Recurrent cost for the project</p>	<p>Availability of water resource in the project areas dose not change drastically.</p> <p>Farming circumstances in the project areas do not aggravate significantly.</p> <p>Pre-conditions: Responsible irrigation engineers and extension workers join the project as required.</p>

Project areas: Three provinces of Hama, Rural Damascus and Dara, **Project sites:** Selected farmlands within the project areas for focusing project activities.
Pilot demonstration farms: Farmlands within the project sites being equipped modern irrigation equipment/facilities under the project.

プロジェクト・デザイン・マトリックス (PDM)

プロジェクト名: シリア国節水灌漑農業普及計画

プロジェクト期間: 2005年3月~2008年3月

Version 2.0

プロジェクト地域: ルーラルダマスカス、ダラ、ハマ県

ターゲットグループ: プロジェクト地域の農業技術者、普及員、農民

2007.1

プロジェクトの要約		指標		指標の入手手段		外部条件	
最終目標 シリア国全体の灌漑地域で、持続的な水利用が行われる。	1) シリア全土の灌漑使用水量が、2016年までに10-20%減少する。	1) 全国水資源・水利用報告 - 現地調査による情報 - 関係者への調査/インタビュー結果	—				
上位目標 プロジェクト地域の灌漑農地において、使用水量が適正化することにより灌漑効率が向上する。	1) プロジェクト地域での灌漑使用水量が、2010年までに10-20%減少する。 2) プロジェクト地域での灌漑農業収量が、プロジェクト実施後も持続 (or 向上) する。	1) 関係流域に関する水資源・水利用報告 - 現地調査による情報 - 関係者への調査/インタビュー結果					・開発された節水灌漑技術が、関係流域内に広く普及する。 ・関係流域内の農民が、求められる近代的灌漑器具を支援なく入手できる。
プロジェクト目標 プロジェクトでは、プロジェクトによって近代的節水灌漑推進の対応能力が向上された関係組織・スタッフの支援によって、各農作物に対して適切な量の灌漑用水が使用されるようになる。 <small>(英文では、「プロジェクトでは、訓練された研修/普及要員の支援によって、各農作物に適切な量の灌漑用水が使用されるようになる」と「プロジェクト地域の関係組織・スタッフにおける近代的節水灌漑推進の対応能力が向上する」に分けている)</small>	1) プロジェクトサイトでの灌漑使用水量が10-20%減少する。 2) プロジェクトサイトでの灌漑農業収量が維持 (or 向上) する。 3) 近代的灌漑に関する担当部局が設立される。 4) 政府 (関係機関) において、近代的節水灌漑推進への対応が可能になる。	1) プロジェクトサイトでの現地調査による情報 - プロジェクトサイト関係者への調査/インタビュー結果					・開発された節水灌漑技術が、プロジェクト地域内に広く普及する。 ・プロジェクト地域内の農民が、求められる近代的灌漑器具を支援なく入手できる。
成果 (1) プロジェクトサイトの状況を反映した圃場レベルの節水灌漑技術・手法が確立される。 (2) プロジェクト地域の農業技術者あるいは普及員が、(プロジェクトが奨める) 近代的節水灌漑技術を各灌漑農家に普及できるようになる。	(1) 最適な節水灌漑システムの計画・設計、及び水管理手法が整備され、関係者の間で使用されるようになる。 (2)-1:75%の研修生 (農業技術者、普及員、農家) が研修の期待水準に達する。 (2)-2:プロジェクトサイトの農民が、普及員の技術レベルに満足するようになる。	(1) マニュアル等の使用環境、使用状況に関する実地調査 (2)-1: 達成度テスト、対象者へのインタビュー (2)-2: 客観的観察、及び農家へのインタビュー					・プロジェクトサイトの農民が、求められる近代的灌漑器具を支援なく入手できる。 ・研修を受けた農業 (灌漑) 技術者や普及員が、現行の職務に止まる。

プロジェクト・デザイン・マトリックス (PDM)

プロジェクト名: シリア国節水灌漑農業普及計画
プロジェクト地域: ルーラルダムスカス、ダラ、ハマ県 ターゲットグループ: プロジェクト地域の農業技術者、普及員、農民

プロジェクト期間: 2005年3月~2008年3月

Version 2.0

		投入	
		日本側	シリア側
<p>(3) プロジェクトサイト (及びその周辺) *の農民が、(普及支援を得て) 栽培作物それぞれに応じた節水灌漑手法を独力で適用できるようになる。 (*:英文ではプロジェクト地域となっており、プロジェクトサイトが正しい。右(3)-3だけがプロジェクト地域を対象)</p>	<p>(3)-1: プロジェクトサイトの90%以上の圃場で、適切な灌漑機器が設置され、使用されるようになる。 (3)-2: プロジェクトサイトの50%以上の農民が作物毎の適正使用水量を把握している。 (3)-3: プロジェクトサイトの50%以上の農民が節水の必要性を理解している。</p>	<p>(3)-1: フィールド調査 (3)-2: 農民インタビュー調査/質問票調査 (3)-3: 農民インタビュー調査/質問票調査</p>	<p>・プロジェクトサイトに関連する市場・流通環境が、顕著に悪化しない。</p>
<p>活動</p> <p>(1)-1 ANRR での過去から現行までのリサーチ活動内容をレビューする。 (1)-2 プロジェクト地域 (プロジェクトサイトを内包する) に関するベースラインサーベイを行う。 (1)-3 プロジェクトサイト選定のための予備的調査を実施する。 (1)-4 プロジェクトの実行計画を確立する。 (1)-5 共同灌漑水管理のための農民組織の結成(可能性)を検討する。 (1)-6 プロジェクトサイトにおいて、(パイロット的な) デモンストレーション圃場の(近代的灌漑システム) 整備を実施する。 (1)-7 圃場レベルでの各プロジェクト地域 (各県) の地域特性に適った、近代的節水灌漑手法を検討する。</p>	<p>日本側 1. 専門家派遣 (1) 長期専門家 *総括/灌漑 *農業普及 *研修 (2) 短期専門家 農業経済/営農 灌漑システム設計 社会経済 灌漑水管理 2. 機材供与 プロジェクト運営用車両</p>	<p>シリア側 1. カウンターパートの配置 2. プロジェクト実施に必要な施設・機材の提供 日本側プロジェクトチームのための作業スペース、機材、施設等 日本側供与機材のための保管スペース、およびその設置 現在使用中の、リサーチ、研修、</p>	<p>プロジェクト地域の水資源事情が、現状に比べて急激に悪化しない プロジェクト地域の営農環境が、急激に悪化しない</p>

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プロジェクト期間: 2005年3月~2008年3月

Version 2.0

プロジェクト地域: ルーラルダマスカス、ダラ、ハマ県 ターゲットグループ: プロジェクト地域の農業技術者、普及員、農民

2007.1

<p>(1)-8 節水灌漑実現のための灌漑技術に関する技術マニユアル(あるいはガイドライン的なもの)を作成する。</p> <p>(2)-1 現行までの(既実施)研修活動内容をレビューする。</p> <p>(2)-2 研修に関わる課題とニーズを明らかにする。</p> <p>(2)-3 より実践的な研修活動のカリキュラムと教材を改良・作成する。</p> <p>(2)-4 関係普及関係者(灌漑技術者や普及員等)への研修を実施する。</p> <p>(3)-1 現行までの普及活動内容を検討する。</p> <p>(3)-2 普及に関わる課題とニーズを明らかにする。</p> <p>(3)-3 より実践的な普及活動のための普及ツールを改良・作成する。</p> <p>(3)-4 プロジェクトサイト(及びその周辺)の関係農家に対する普及活動を実施する。</p>	<p>事務機器類 研修関連機材 普及関連機材 デモ圃場整備のための関連機材</p> <p>3. 研修 1) 日本国内研修 2) 第3国研修 3) 国内研修</p>	<p>普及活動に活用中の諸機材等の活用</p> <p>3. ローカルコスト プロジェクト実施のための運営費等、シリア側負担コスト</p>	<p>前提条件 各関係灌漑技術者、普及員等が、プロジェクトの要請にしたがって、プロジェクト活動に参加する。</p>
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Project Design Matrix (PDM)

Project Title : Project on Development of Efficient Irrigation Techniques and Extension in Syria
Target Area: Rural Damascus, Daraa and Hama
Target group: Irrigation engineers, extension workers, and farmers in the project areas
 Governorates

Project Period: March 2005 – March 2008
Version 2.0
 Date: October 2007

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Super Goal: Sustainable irrigation water use is achieved in the whole possible regions in Syria.</p>	<p>1) Total amount of irrigated water in Syria decreased 10-20 % by the end of 2016.</p>	<p>- Reports on hydrological condition in Syria - Field measurement in the areas - Investigations/questionnaire to farmers</p>	<p>---</p>
<p>Overall Goal: Water use efficiency is improved, and water loss is reduced in the farmers' fields of project areas.</p>	<p>1) Total amount of irrigated water in the project areas decreased 10-20 % by the end of 2010. 2) Crop production in the project areas remains at the same (and/or improved) level as before the commencement of the Project.</p>	<p>- Field measurement in the areas - Investigations/questionnaire to farmers</p>	<p>The efficient irrigation techniques are spread widely within the basins concerned. Farmers within the basins can purchase modern irrigation equipment easily as required in terms of quality and quantity.</p>
<p>Project Purpose: Proper amount of irrigation water is used for each crop in the project sites, through providing adequate supports by strengthened training/extension activities. Capability for promoting water saving modern irrigation is raised in the organizations /staffs concerning the project areas.</p>	<p>1) Total amount of irrigated water in the project sites decreased 10-20 % (of the same at the point before project starting) by the completion of the project. 2) Crop production in the project sites remains at the same level as before the commencement of the Project. 3) New responsible organization for modern irrigation is established. 4) Responsible governmental organizations become capable of promoting water saving modern irrigation.</p>	<p>- Field measurement at the sites - Investigations/questionnaire to farmers at the sites</p>	<p>The outcomes obtained in the project spread and are utilized properly within the project areas. Farmers in the project areas can purchase modern irrigation equipment easily as required in terms of quality and quantity.</p>
<p>Outputs: (1) Satisfactory water saving efficient irrigation techniques are established according to the local conditions in the project sites. (2) Irrigation engineers and extension workers concerning the project, are able to transfer knowledge to farmers in terms of water saving modern irrigation method. (3) Farmers in the project areas are guided so as to adopt efficient irrigation for each crop individually through providing extension services.</p>	<p>(1)-1: Manuals on design standard of efficient irrigation system and on-farm irrigation management are prepared and used by the relevant personnel. (2)-1: 75% of the trainees (irrigation engineers and extension workers) reaches the expected achievement level of each training item. (2)-2: Farmers are satisfied with the skill and knowledge of irrigation engineers and extension workers in the project sites. (3)-1: Irrigation equipment for efficient irrigation are properly installed and operated in more than 90% (or more) of the plots of farmers concerned in the project sites. (3)-2: More than 50% of farmers quantify the appropriate volume of irrigation water for each crop in the project sites.</p>	<p>(1)-1: Inspection for using condition of the prepared manuals and documents (2)-1: Achievement test and interview. (2)-2: Observation and monitoring on the farmers' opinion. (3)-1: Field observation (3)-2: Interviews/questionnaire to the farmers (3)-3: Interviews/questionnaire to the farmers</p>	<p>Farmers in the project sites can purchase modern irrigation equipment easily as required in terms of quality and quantity. Trained irrigation engineers and extension workers do not leave from their duty. Marketing condition in the project sites do not aggravate drastically.</p>

Project Design Matrix (PDM)

Project Title : Project on Development of Efficient Irrigation Techniques and Extension in Syria
 Target Area: Rural Damascus, Daraa and Hama Target group: Irrigation engineers, extension workers, and farmers in the project areas
 Governorates

Project Period: March 2005 – March 2008
 Version 2.0
 Date: October 2007

Activities:	(3)-3: More than 50% of farmers understands the significance of water saving in the project areas. Inputs		
<p>(1)-1 Review past and present research activities of ANRR.</p> <p>(1)-2 Conduct a baseline survey of the project areas in which project sites are located.</p> <p>(1)-3 Conduct a preliminary study on the selection of the project sites.</p> <p>(1)-4 Prepare the detailed plan of operation of the project.</p> <p>(1)-5 Organize farmers' group(s) for introducing group water management, if necessary.</p> <p>(1)-6 Establish the (pilot) demonstration farms in the project sites.</p> <p>(1)-7 Investigate suitable modern water-saving irrigation method for the project areas.</p> <p>(1)-8 Prepare manuals and/or guidelines on the efficient irrigation techniques.</p> <p>(2)-1 Review past and present training activities.</p> <p>(2)-2 Identify needs and confronted problems in terms of training activities.</p> <p>(2)-3 Improve the training curriculum and teaching materials.</p> <p>(2)-4 Carry out the training courses to the irrigation engineers and extension workers concerned.</p> <p>(3)-1 Review past and present extension activities.</p> <p>(3)-2 Identify needs and confronted problems in terms of extension activities.</p>	<p><u>Japanese Side:</u></p> <p>1. Dispatch of Japanese experts (1) Long-term experts - Irrigation/Leader - Agricultural extension - Training (2) Short-term experts - Agricultural economy/Agronomy - Irrigation system - Socio-economy - Irrigation water management</p> <p>2. Provision of equipment - Cars to be used in the project - Office equipment to be used in the project - Audiovisual aids for training activities - Equipment for extension activities - Equipment and instrument for establishment of the demonstration farms</p> <p>3. Training 1) Counterpart Training in Japan - 1 to 2 persons a year 2) Training and/or study tour of the third countries. 3) Training in Syria</p>	<p><u>Syrian Side:</u></p> <p>1. Assignment of counterparts personnel</p> <p>2. Provision of facilities and equipment - Rooms and spaces necessary for installation and storage of the equipment provided by Japanese side. - Office spaces for the project team in the head quarters of ANRR and in each project area. - Existing research, extension and training facilities and equipment.</p> <p>3. Local cost Project implementation cost - Recurrent cost for the project</p>	<p>Availability of water resource in the project areas dose not change drastically.</p> <p>Farming circumstances in the project areas do not aggravate significantly.</p>

Project Design Matrix (PDM)

Project Title : Project on Development of Efficient Irrigation Techniques and Extension in Syria

Target Area: Rural Damascus, Daraa and Hama **Target group:** Irrigation engineers, extension workers, and farmers in the project areas

Governorates

Project Period: March 2005 – March 2008
Version 2.0

Date: October 2007

<p>(3)-3 Improve the extension materials. (3)-4 Provide extension services to the farmers in and surrounding the project sites.</p>			<p>Pre-conditions: Responsible irrigation engineers and extension workers join the project as required.</p>
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Project areas: Three provinces of Hama, Rural Damascus and Dara, **Project sites:** Selected farmlands within the project areas for focusing project activities.

Pilot demonstration farms: Farmlands within the project sites being equipped modern irrigation equipment/facilities under the project.



Annex 3

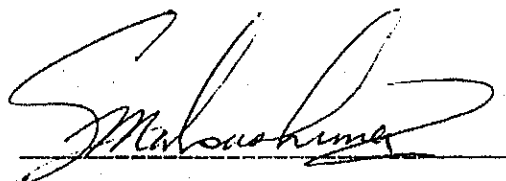
議事録

Minutes of Meeting
for
The Kick-off Meeting
of
**The Project on Development of Efficient Irrigation Techniques
and Extension in Syria**

The Japan International Cooperation Agency (JICA) dispatched the Project Team (hereinafter referred to as "JICA Team") on Development of Efficient Irrigation Techniques and Extension to Syria in accordance with the "Record of Discussions" that was signed on November 10, 2004. After arriving in Syria for the JICA Team, Kick-off Meeting was held in the conference room of Administration of Natural Resource Research (ANRR) on May 10, 2004.

As a result of the discussions, the JICA Team and the Syrian officers concerned agreed on the matters referred to in the document attached hereto. The names of attendants on the Kick-off Meeting are shown in the List of Attendants hereinto.

Damascus, May 10, 2005



Dr. Shuichi MATSUSHIMA
Team Leader
JICA Project Team on
Development of Efficient Irrigation
Techniques and Extension in Syria



Dr. Majd Jamal
Director General
General Commission for Scientific
Agricultural Research
Ministry of Agriculture and Agrarian
Reform, The Syrian Arab Republic

Discussed and Agreed matters in the Kick-off Meeting

1. Team Leader of the JICA Team explained about the basic plan of the Project on the basis of the Project Document, which was prepared in Japan during the Preparation Work Period. The Plan and contents of the Project Document were generally approved by the Syrian officers concerned.

2. The JICA Team requested to establish the Project Implementation Unit (PIU) nominating suitable Syrian officers to the counterparts of the Project. The Syrian side appointed Syrian personnel to each specialized counterpart as follows:

Title of Counterpart	Name of personnel	Belonging Organization
A) Counterpart personnel of PIU for Project Management		
Project Director	Dr.Majd Jarnal	D.G of GCSAR
Project Manager	Dr.Riad Al Shayeb	Director of ANRR
Sub-Project Manager*	Waiting for the assumption of office	Director of Extension Directorate
Advisor*	Mr.Ali Kaisi	ANRR
Technical Supervisor*	Mr.Marcel Romhein	ANRR
Project Coordinator	Mr.Firas Salloum	ANRR
Administration*	Mr.Radwan Yousef	ANRR
B) Counterpart personnel of PIU for specified subjects		
Irrigation	Mr.Firas Salloum (concurrently)	ANRR
Training	Mr.Nasr Koki	ANRR
Agricultural Extension	Mr.Elias Khouli	Extension Directorate
-do-	Mr.Abdallah Khabbaz	Extension Directorate
Agro-economy/Agronomy	Mr.Waleed Al Hazeem	ANRR
Irrigation System Designing	Mr.Nasr Koki (concurrently nominated)	ANRR
Socio-economy	To be nominated**	ANRR
Technology Transfer*	Mr.Waleed Al Hazeem(concurrently)	ANRR

*: These positions are newly proposed and agreed to be posted within the PIU.

** : Syrian side agreed to nominate a suitable person to the post as soon as possible.

3. Both sides agreed that the counterpart personnel for specified subjects are in full-time assignment or equally involved in the Project implementation.

4. The counterpart personnel shall go into action of the Project implementation. The counterpart personnel of PIU for specified subjects will hold a weekly discussion to determine weekly schedule and to attain the scheduled tasks.

List of Attendants on the Kick-off Meeting held on May 10, 2005

Name	Position	Phone	Fax
Dr. Riad Al Shayeb	Director of ANRR	5756012	57386400
Mr. Ali KAISI	Deputy of ANRR	011-57386314	011-57386400
Mr. Firas Salloum	Water Resources Management Division	094636046	57386400
Mr. Nasr Koki	Water Resources Management Division	2710604	57386400
Mr. Waleed Al Hazeem	Water Planning and Irrigation System Design Division	4720765	57386400
Mr. Elias Khouli	Extension Directorate	2233714	44674711
Mr. Abdallah Khabbaz	Extension Directorate	092874181	
Mr. Radwan Yousef	Public Relations ANRR		
Dr. Maan Daoud	Water Resources Management Division		
Mr. Ahmad Zuleta	Water Requirement and Irrigation Methods Division		
Mr. Mohammed KheirBunni	Agricultural Environment Division		
Mr. Marcel Romhein	Water Planning and Irrigation System Design Division	093411157	
Mr. Mazen Naji	Soil Maintenance and Land Reclamation Division		
Mr. Abd Al Razak nktah	GIS/ R.S. Division		
Mr. Talal Khadra	Soil Fertility Division		
Dr. Shiuchi MATSUSHIMA	Team Leader of the Project		
Mr. Akira KOTO	Member of the Project		
Mr. Hiroyasu ONUMA	Member of the Project		
Mr. Eiichi TAKIGAWA	Member of the Project		

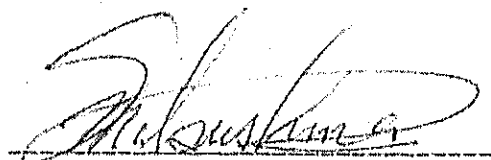
Miss. Reiko FUNABA	Assistant Resident Representative JICA		
Mr. Rouand SIDO	Program Officer JICA	011-3339359	3334834

Minutes of Meeting
for
1st Steering Committee Meeting
of
The Project on Development of Efficient Irrigation Techniques
and Extension in Syria

The Japan International Cooperation Agency (JICA) dispatched the Project Team (hereinafter referred to as "JICA Team") on Development of Efficient Irrigation Techniques and Extension to Syria in accordance with the "Record of Discussions" that was signed on November 10, 2004. After arriving in Syria for the JICA Team, 1st Field Work has been started. At the completion of the field work, 1st Steering Committee Meeting was held in the conference room of Administration of Natural Resource Research (ANRR) on September 21, 2005.

As a result of the discussion, the JICA Team and the Syrian officers concerned exchanged their opinions and agreed on the matters referred to in the document attached hereto. The names of attendants on the 1st Steering Committee Meeting are shown within the document hereinto.

Damascus, September 21, 2005



Dr. Shuichi MATSUSHIMA
Team Leader
JICA Project Team on
Development of Efficient Irrigation
Techniques and Extension in Syria



Dr. Majd Jamal
Director General
General Commission for Scientific
Agricultural Research
Ministry of Agriculture and Agrarian
Reform, The Syrian Arab Republic

**Summary of the First Steering Committee of JICA Project
Development Effective Irrigation Techniques and Extension
In Syria**

The first steering committee of JICA Project of "Development Effective Irrigation Techniques and Extension" was held under JICA's care on Wednesday 21/9/2005 at 1:00 in GCSAR at the NRRM center.

The following Messrs attend the meeting:

- Dr. Majd Jamal	General Director of GCSAR	Chief
- Dr. Riad al-Shayeb	Director of NRRM	Member
- E. Eid Kahwaji	Director of Agricultural	Member
- E. Ali Kaisi	Director of NRRM Assistant	Member
- E. Bassam Baioun	Chief of Extension and Habilitation Division at the Ministry of Agriculture	Member
- E. Samer Khateb	International Cooperation at the Ministry of Agriculture	Member
- E. Firas Salloum	Syrian Project Coordinator	Member
- E. Saleem Abdul Aziz	State Planning Commission	Member
- Dr. Shuichi MATSUSHIMA	JICA Project Leader	Member
- E. Akira KOTO	JICA Project Sub-leader	Member
- E. Eiichi TAKIGAWA	Project Coordinator	Member
- Mr. Kazohidi NAGASAWA	JICA Resident Representative Office in Syria	Member
- Mr. Takishi OKUDA	First Secretary of Japan Embassy	Member
- E. Noryoki MORI	Expert at Water Resources Information Center at the Ministry of Irrigation	Member
- E. Yoichi IWAI	Expert at the Ministry of Local Administration and Environment	Member

The following Messrs also attend the meeting:

- Mr. Ghassan Habal	Responsible of Economic Cooperation at the Embassy of Japan	
- Mr. Muhamad Duboush	The Ministry of Local Management and Environment	
- E. Elias Khouli	Agricultural Extension Directory	Counterpart
- E. Bassam al-Husein	NRRM	Counterpart

The following Messrs were absent:

- E. Maher Hamoudeh	Ministry of Irrigation
- Miss Riko FONABA	JICA Office

- E. Mitsuo NISHIYA JICA Expert
- E. Tomoki HOTTA JICA Expert
- E. Naoki KOGA JICA Expert
- E. Hiroyasu OHNUMA JICA Expert

1. The Steering Committee Schedule:

- * Opening. Dr. Majd Jamal
- * Summary about the Project of Development Effective Irrigation Techniques and Extension. Dr. Shuichi MATSUSHIMA
- * Discussion the missions of the steering committee and subject related to the project. All Members
- * Discussion results. Dr. Majd Jamal
- * Additional schedule of the project. Dr. Shuichi MATSUSHIMA
- * Conclusion. Dr. Majd Jamal

Schedule Discussion

The Opening:

Dr. Majd Jamal welcomed the attendance of DEITEX steering committee members and he thanks the Japanese government and JICA for their continues efforts to succeed this project.

Mr. Kazohidi NAGASAWA talked about JICA's activities in Syria and about the Japanese recognition in such projects and about the importance of this project to Syria.

Mr. Takishi OKUDA concentrated on the importance of Agriculture in Syria for that the Japanese government is interested in the cooperation in this field, so the Japanese experts team was send to start working on this project as a starting project for other coming projects in this field.

Project Summary:

Dr. Shuichi MATSUSHIMA mentioned the contribution of irrigated agriculture in the Syrian economic, and problems such as water shortage, population increment, the importance of providing drinkable water and enough food for the increasing population. As agriculture is the largest consumptive of water, this project is necessary for saving irrigation water.

The project will be performed in three governorates: Rural Damascus, Hama, and Daraa for three years from March 2005 till March 2008. Rural Damascus and Daraa are most famous in applying drip irrigation by using wells, and Hama is famous in applying sprinkler irrigation more than wells.

Currently farmers are using much amount of water to get less production, for that the project aims to provide much production with less amount of water and energy

through improving irrigation equipment, so the Syrian government is trying to perform the national project of modern irrigation conversion, that requires using efficient equipments and modern technologies parallel to agricultural extension and training activities to convince farmers with this modern technique and its economical feasibility.

The first stage of the project finished by preparing a survey about villages and farmers, some said that this survey took a long time to be finished, but even though this survey is very important for future projects in Syria. In the second stage demonstration fields will be established in the project's suggested governorates.

E. Elias: we would like to thank the Japanese for their endless efforts to complete the first survey of the project despite of the difficulties which faced the project in its first stage.

Missions of the Steering Committee:

E. Bassam Baioun wondered about the economical feasibility of the project.

Dr. Shuichi MATSUSHIMA said: that the economical effect is essential in succeeding the project through decreasing the energy's costs, saving water and increasing the production, it is also important to mention that each side has its own economical case.

Dr. Riad al-Shayeb: I think that the need of increasing water sufficiency is more important than the economical feasibility as 95% of classical water resources are used in agriculture, with the need of calculating the economical benefit of each cubic meter of water after increasing its sufficiency, taking into consideration that the NRRM has important economical studies show the costs and benefits of governmental irrigation projects and pumping from different wells' depths for most important crops and some vegetables and fruit trees, and giving highly importance to drinkable water.

E. Ali Kaisi: the technical and economical studies show that improving modern irrigation techniques will save 30 to 50 % of water resources used in agriculture that will cover water shortage and provide enough food and continues agriculture and increase farmer income.

Dr. Shuichi MATSUSHIMA: saving water in agriculture will lead to provide more water for the industrial sector and provide more drinkable water resources.

We are concentrating on farmer's economical side to facilitate the conversion into modern irrigation, so we are interested in convincing farmers with the economical benefits to perform modern irrigation technologies, and in the next stage we will present a report contains economical analysis about the project.

E. Elias Khouli: according to the previous plan of the project, extension and training would start in April, so do we still following the same plan or did it change?

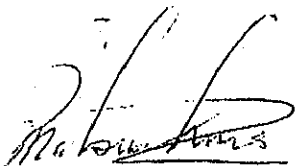
Dr. Shuichi MATSUSHIMA: we analyzed the economical situation, and we will keep on analyzing the economical situation through the project's progress, and after establishing the demonstration fields, extension and training will start.

We would like to request the cooperation of the Ministry of Industry through a representative person attending the steering committee.

Dr. Majd Jamal: we should take into concentration that there are many factories which produce irrigation pipes but they are not following the international standards, and we will do our best to send your request to the Ministry of Industry to send us their representative of the standards commission to attend our steering committee.

Summary:

Everyone emphasized their cooperation to succeed the project, and the project documents were distributed to the members.

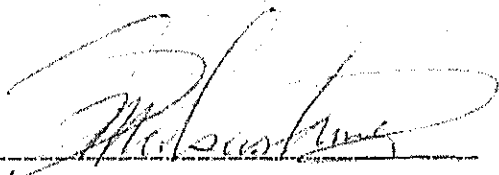
A handwritten signature in black ink, appearing to be 'M. Jamal', written over a horizontal line.

Minutes of Meeting
for
2nd Steering Committee Meeting
of
The Project on Development of Efficient Irrigation Techniques
and Extension in Syria

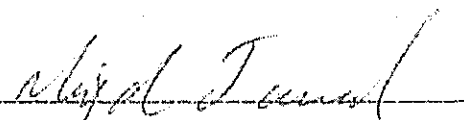
The Japan International Cooperation Agency (JICA) dispatched the Project Team (hereinafter referred to as "JICA Team") on Development of Efficient Irrigation Techniques and Extension to Syria in accordance with the "Record of Discussions" that was signed on November 10, 2004. After arriving in Syria for the JICA Team, 1st Field Work was started. Succeedingly, 1st Work in Japan and 2nd Field Work have been implemented. At the completion of the 2nd Field Work, 2nd Steering Committee Meeting was held in the conference room of Administration of Natural Resource Research (ANRR) on March 6, 2006.

As a result of the discussion, the JICA Team and the Syrian officers concerned exchanged their opinions and agreed on the matters referred to in the document attached hereto. The names of attendants on the 2nd Steering Committee Meeting are shown within the document hereinto.

Damascus, March 6, 2006



Dr. Shuichi MATSUSHIMA
Team Leader
JICA Project Team on
Development of Efficient Irrigation
Techniques and Extension in Syria



Dr. Majd Jamal
Director General
General Commission for Scientific
Agricultural Research
Ministry of Agriculture and Agrarian
Reform, The Syrian Arab Republic

**Summary of the Second Steering Committee Meeting of the Project
on Development of Efficient Irrigation Techniques and Extension
In Syria
(D.E.I.TEX Project)**

The second steering committee meeting of the Project on "Development of Efficient Irrigation Techniques and Extension in Syria" was held on Monday 6/03/2006 at 12:30 in GCSAR at the conference room of ANRR.

The following Messrs attend the meeting:

Dr. Majd Jamal	General Director of GCSAR
Dr. Riad Al Shayeb	Director of ANRR
E. Mohammad Abdullah	Director of Agricultural Extension
E. Ali Kaisi	Deputy of ANRR
E. Saleem Al Aziz	State Planning Commission
E. Bassam Bayoun	Chief of Training Directorate
E. Samer Al Khatieb	International Cooperation at MAAR
Dr. Shuichi MATSUSHIMA	JICA Project Team Leader
E. Akira KOTO	JICA Project Team Sub-leader
E. Hiroyasu ONUMA	Team Member as Agricultural Extension
E. Eiichi TAKIGAWA	Team Member as Project Coordinator
E. Romhin Marcel	Counterpart as Supervisor
E. Firas Salloum	Counterpart as Syrian Project Coordinator
E. Bassam Al Husein	Counterpart as Training
E. Nasr Koki	Counterpart as Irrigation System Design
E. Walid Al Hazem	Counterpart as technology Trasfer/Agro-Economy
E. Samer Al Ahmad	Counterpart as Irrigation System Design
Mr. Kazuhide NAGASAWA	Resident Representative of JICA Office in Syria
Miss. Reiko FUNABA	Assistant Resident Representative of JICA Office in Syria
Mr. Rouand Sido	Programme Officer of JICA Office in Syria
Miss. Rahaf Kahwaji	Secretary of Project Team

**Agenda
of
the 2nd Steering Committee Meeting
of
(D.E.I.TEX Project)**

12:30 – 12:45	Introduction
12:45 – 13:15	Explanation of the Progress of 2 nd Field Work
13:15 – 13:30	Recommendation from the Project Team
13:30 – 14:00	Questions and Answers
14:00 – 14:10	Further Schedule of the Project, and Conclusion

Introduction:

Dr. Majd Jamal: I'd like to welcome everybody and to discuss the project progress and the next period to know what's going on and what will happen in the future.

Dr. Shuichi Matsushima: thanks for your attendance, according to the necessity of saving water which has been highlighted in Syria, the steering committee hold its meetings continuously.

Now we have successfully finished the second field work, and in comparing with our progress and the project design we can see that 30% of our tasks have been completed. We have conducted our baseline survey.

The major subjects in the progress of our project are: the establishment of demonstration farms on the development of modern irrigation, and the training and extension activities to train the person who will play the role of water extensionist in irrigation, our main target is to make the farmer perform good irrigation without much waste of water, through training and extension activities performed by our project.

Explanation of the Progress of 2nd Field Work

E. Firas Salloum, explained the criteria of selecting the demonstration farms in details, and the targets of demonstration farms in each governorate throughout facility design and installation, on-farm water management, fertigation, use of water resources, and finally the impacts.

Then he talked about the training and extension activities taken during 2nd field work, and the structure of water extension which based on qualifying water extensionist to perform continues field visits to know the farmer problems and find the suitable solutions or send the complicated ones to the research level, to create the needed cooperation between extension and research centers necessary for sustainable agriculture.

Then he explained the role of water extensionists and the subjects of the training course, and the expected outcome of the training, then he explained the applied tools during the training course and the outcomes and learned lessons through the training/extension activities.

Recommendation from the Project Team

Dr. Shuichi Matsushima: pointed out the current recommendations from the concerned Ministries to continue their good cooperation to the project activities during the absence of the Project Team in March.

The purpose of our Training courses is to train the water extensionists of extension units, they needs official posts to work more effectively, so we kindly ask you to give them such official posts to give them the chance to achieve their missions and tasks.

We kindly ask the Ministry of Irrigation, to provide more information and data to the Project.

Questions and Answers:

E. Ali Kaisi: I think the duration of the training course is short, four days of training is not enough to create a water extensionist, especially in designing and installing irrigation system. Training materials should be easily explained not scientifically for easier transmitting to the farmers.

Dr. Shuichi Matsushima: our project can't cover all the problems of extension and training, the Syrian side should take a role in training, our role is to improve the extension and the training not to take that role.

Dr. Riad Al Shayeb: I'd like to thank the Japanese Team for their efforts and I'd like to ask them if the Project could introduce group water user, and if it could close one well out of four in Kafr Hour for example, that will be a good achievement of the project as a starting point for establishing water user associations.

And he also wondered why ANNR didn't participated in deciding the tender process, and the decision was made in JICA Office not at ANNR.

Dr. Shuichi Matsushima: we are trying to convince group of farmers to share using one well, and we are expecting different reactions from the farmers side.

Our counterparts joined in the approach of the contract, through their suggestions and recommendations, and JICA only depended on ANNR recommendation.

E. Romhin Marcel: we joined in modifying the designs and provided them with the best irrigation equipment companies, then JICA picked one according to best prices and quality.

Dr. Riad: asked about reducing the area of the demonstration farms.

Dr. Shuichi Matsushima: we are concentrating on the quality more than quantity.

Finally, before our departure to Japan we kindly ask your continues cooperation during our absence.

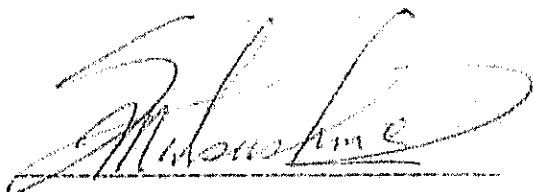
Dr. Majd Jamal: we wish you a nice trip and safely return to continue your activity successfully.

Minutes of Meeting
for
3rd Steering Committee Meeting
of
The Project on Development of Efficient Irrigation Techniques
and Extension in Syria

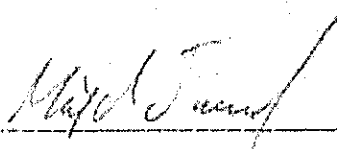
The Japan International Cooperation Agency (JICA) dispatched the Project Team (hereinafter referred to as "JICA Team") on Development of Efficient Irrigation Techniques and Extension to Syria in accordance with the "Record of Discussions" that was signed on November 10, 2004. After arriving in Syria for the JICA Team, Field Work of the Project was started. Succeedingly, a series of Field Works in Syria have been implemented. At the completion of the 3rd Field Work, 3rd Steering Committee Meeting was held in the conference room of Administration of Natural Resource Research (ANRR) on January 31, 2007.

As a result of the discussion, the JICA Team and the Syrian officers concerned exchanged their opinions and agreed on the matters referred to in the document attached hereto. The names of attendants on the 3rd Steering Committee Meeting are shown within the document herewith.

Damascus, January 31, 2007



Dr. Shuichi MATSUSHIMA
Team Leader
JICA Project Team on
Development of Efficient Irrigation
Techniques and Extension in Syria



Dr. Majd Jamal
Director General
General Commission for Scientific
Agricultural Research
Ministry of Agriculture and Agrarian
Reform, The Syrian Arab Republic

**Meeting Minutes of the Third Steering Committee Meeting of the Project on
Development of Efficient Irrigation Techniques and Extension in Syria
(DEITEX Project)**

The third steering committee of DEITEX Project was held on Wednesday 31/1/2007 at the meeting room of ANRR.

The following Messrs attended the meeting:

The Attendance:

Mr. Kazuhide Nagasawa	Resident Representative of JICA Syria Office
Ms. Reiko Funaba	Deputy R. R. of JICA Syria Office
Mr. Rouand Sido	Programme Officer, JICA Syria Office

Dr. Awadis Arjlan	Director of ANRR
E. Ali Kaisi	Deputy Director of ANRR
Dr. Mamoun Malakani	Director of Modern Irrigation Conversion
Dr. Mohammed Abdullh	Director of Extension
E. Elias Khouli	Head of Program Dep., Extension Directorate
E. Mahmoud al-Attabaa	National Training Center
E. Ziad Zahraa	National Training Center
E. Bassam Bayioun	National Training Center

E. Firas Salloum	Project Coordinator
E. Nasr Koki	Counterpart
E. Marcel Romhein	Counterpart
E. Bassam al-Husein	Counterpart

Dr. Shichi Matsushima	DEITEX Project, Team Leader
Mr. Hiroyasu Onuma	DEITEX Project, Team Member
Mr. Akira Koto	DEITEX Project, Team Member
Mr. Eiichi Takigawa	DEITEX Project, Team Member

Ms. Rahaf Kahwaji	DEITEX Project, Secretary
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**Agenda
of
The Third Steering Committee Meeting
of
DEITEX Project**

11:10 – 11:15	Opening Address
11:15 – 11:20	Opening Greeting
11:20 – 11:30	Progress of the Project
11:30 – 11:45	Revision of PDM and Evaluation of the Project
11:45 – 12:00	Improvement of the Counterpart Structure
12:00 – 12:30	Questions and Answers
12:30 – 12:45	Further Schedule of the Project Implementation
12:45 – 12:50	Closing Address

Introduction:

Dr. Awadis opened the meeting and thanked the participants for their attendance.

Mr. Nagasawa thanked NARR and the participants for their continued cooperation in the implementation of DEFTEX Project and its importance in Syria.

Explanation of the Progress of the Project:

Dr Matsushima explained the progress of the project at the time being as the passed duration is 62.2 % in the project period, and 65.9 % is achieved for the total fulfillments. Project activities taken so far were explained. In addition to the outcomes, other additional activities of training the staff of DMIC (Directorate of Modern Irrigation Conversion), and training the Iraqi engineers were also accounted.

Explanation of the Revision of PDM and Evaluation of the Project:

Mr. Firas described the PDM (Project Design Matrix) of the Project, the revised items in the PDM and its grounds for the revision. After that, evaluation of current achievement of the Project was clarified on the basis of the revised PDM.

Explanation of the Improvement of the Counterpart Structure:

Mr. Bassam explained the counterpart structure of the Project and raised a suggestion of adding the Directorate of Modern Irrigation Conversion as a third counterpart.

Questions and Answers:

First of all, the progress of the Project explained was approved without questions. All the participants were in agreement on the revision of PDM and evaluation of the Project as Mr. Firas proposed and explained. Furthermore, the participants also agreed on the enrolling of DMIC to the project counterparts with one consent.

After providing the outlines of the National Project of Modern Irrigation Conversion, Dr. Malakani wondered if other governorates besides Hama, Rural Damascus and Daraa could be added to the project area presently or in future. Dr. Awadis referred to the importance to consider more about comprehensive factors like soil and climate in other governorates in the next phase. Mr. Nagasawa replied to their questions that we needed a new proposal from your side, showing which governorates/subjects need to be added to the project area/subjects, for the next phase of the Project.

Mr. Tabaa assured that the Training Center was always ready for full cooperation with the Project.

Mr. Marceel pointed out to the problem of participatory irrigation and asked if the Project could tackle it or not. Mr. Qaisi answered the request of Mr. Marceel by saying that the participatory irrigation was a very wide topic and could not be thoroughly covered by the current Project as it needed certain legislatives and large budget.

Explanation of the Further Schedule of the Project Implementation:

Counterparts gave explanation about the implementation schedule to be taken in this year by their concerned fields.

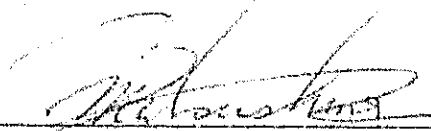
Finally, Dr. Awadis thanked the participants for their attendance and cooperation. The meeting was closed at 12:50 pm.

Agreement
among
Counterpart Organizations of DEITEX Project

On the basis of the discussion taken in the 3rd Steering Committee Meeting on 31/1/2007, we attain to an agreement on the followings:

- 1) Directorate of Modern Irrigation Conversion (DMIC) joins the counterpart alliance of DEITEX Project as a third counterpart agency from the date signed this agreement.
- 2) Directorate of Modern Irrigation Conversion (DMIC) shall assign their staffs the duties of counterpart of the Project at the required numbers and fields.
- 3) Every counterpart organizations shall keep mutual cooperation each other so as to successfully attain the project purpose.

Damascus, January 31, 2007

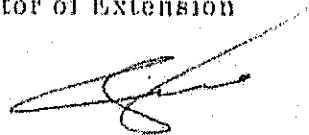


Dr. Shuichi MATSUSHIMA
Team Leader of DEITEX Project

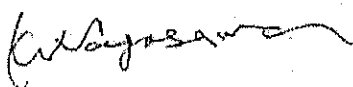
Dr. Malakani MAMOUN
Director of Modern Irrigation
Conversion



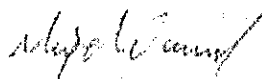
Dr. Mohammad ABDULLAH
Director of Extension



Mr. Hidekazu NAGASAWA
JICA Resident Representative



Dr. Majd JAMAL
Director General of GCSAR



MINUTES OF MEETING ON
THE STEERING COMMITTEE FOR
THE TERMINAL EVALUATION REPORT
FOR
THE PROJECT ON DEVELOPMENT OF EFFICIENT IRRIGATION
TECHNIQUES AND EXTENSION IN SYRIA

The Japanese Terminal Evaluation Team, organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") visited the Syrian Arab Republic (hereinafter referred to as "Syria") from November 11th to November 30th, 2007, for the purpose of conducting the Terminal Evaluation of the Project on Development of Efficient Irrigation Techniques and Extension (hereinafter referred to as "the Project").

The Joint Evaluation Team (hereinafter referred to as "the Team"), which consists of six members from JICA and two members from Syria, was jointly organized for the purpose of conducting the terminal evaluation and preparation of necessary recommendations to the respective governments.

After intensive study, analysis, discussions of the activities and achievements of the Project, the Team prepared the Terminal Evaluation Report (hereinafter referred to as "the Report"), which was presented to the Steering Committee (hereinafter referred to as "the Committee").

The Committee discussed the major issues pointed out in the Report, and agreed to recommend to the respective governments the matters attached hereto.

Damascus, November 29th, 2007

高田 明子

Ms. Akiko TOMITA
Resident Representative,
Japan International Cooperation Agency
Syria Office

Majd Jamal

Dr. Majd JAMAL
Director General,
General Commission of Scientific Agricultural Research
Ministry of Agriculture and Agrarian Reform

Major Points of Discussions and Agreement in the Steering Committee

1. The Team presented the Report to the Committee.
2. The Committee accepted the Report and took notes of the recommendations by the Team.
3. The Committee agreed that the Project is to be terminated on 31st March, 2008 as planned.
4. The Committee agreed that it is essential to accelerate dissemination of the Project outputs throughout Syria given that the Project showed clear effects as the model. The Syrian side has requested the Japanese side of further assistance of Japan to extend the outputs and to ensure the sustainable utilization of the Project's output.

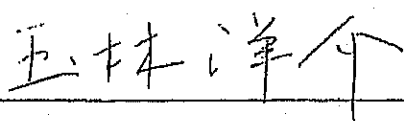
Attachment: The Terminal Evaluation Report

A. T.

M. J.

THE TERMINAL EVALUATION REPORT
FOR
THE PROJECT ON DEVELOPMENT OF EFFICIENT IRRIGATION
TECHNIQUES AND EXTENSION IN SYRIA

Damascus, November 28th, 2007



Mr. Yosuke TAMABAYASHI
Team Leader,
Japanese Evaluation Team



Dr. Wael SEIF
Team Leader/Irrigation,
Syria Evaluation Team

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1. Introduction
 - 1.1 Objectives of the evaluation
 - 1.2 Members of the joint evaluation team
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 - 1.4 Status of the report

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3. Methodology of the Evaluation
 - 3.1 Evaluation questions and Indicators
 - 3.2 Data collection method and analysis
 - 3.2.1 Data collection method
 - 3.2.2 Items of analysis

4. Project performance and implementation process
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 - 4.2 Activities
 - 4.3 Outputs
 - 4.4 Achievement of the Project purpose
 - 4.5 Achievement of the Overall goal
 - 4.6 Implementation process of the Project

5. Evaluation based on the five criteria
 - 5.1 Relevance
 - 5.2 Effectiveness
 - 5.3 Efficiency
 - 5.4 Impact
 - 5.5 Sustainability

6. Conclusion

Fi



7. Recommendations

7.1 Matters to be addressed by the termination of the Project

7.2 Actions to be taken after the termination of the Project

8. Lessons learnt

ANNEX

1. Location of the Project area
2. Schedule for the Terminal Evaluation
3. Project Design Matrix (PDM)
4. Evaluation Grid with Findings
5. Plan of Operation (PO)
6. Record of Implementation of Input
 - a. List of Japanese Experts
 - b. Procurement of the Equipment
 - c. List of Counterpart Training in Japan & Counterpart Study Tour of the Third Country
 - d. Assignment of Counterparts
 - e. Local Cost from Japanese Side
 - f. Local Cost from Syrian Side
 - g. List of Training Course
 - h. List of Extension Activity
 - i. List of Demonstration Activity
7. List of Productions
8. Performance of the Project Activities
9. Analysis on Questionnaire and Interviews
10. Characteristics of Three (3) Project Areas
11. Organization Chart of Ministry of Agriculture and Agrarian Reform
12. Concerned Organizations and Assignment of Counterparts For the Project

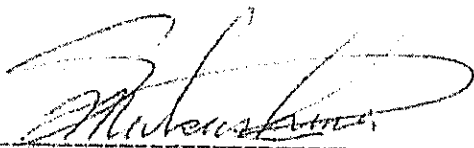
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Minutes of Meeting
for
5th Steering Committee Meeting
of
The Project on Development of Efficient Irrigation Techniques
and Extension in Syria

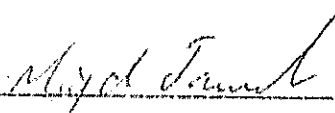
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As a result of the discussion, the JICA Team and the Syrian officers concerned exchanged their opinions and agreed on the matters referred to in the document attached hereto. The names of attendants on the 5th Steering Committee Meeting are shown within the document hereinto.

Damascus, January 23, 2008



Dr. Shuichi MATSUSHIMA
Team Leader
JICA Project Team on
Development of Efficient Irrigation
Techniques and Extension in Syria



Dr. Majd Jamal
Director General
General Commission for Scientific
Agricultural Research
Ministry of Agriculture and Agrarian
Reform, The Syrian Arab Republic

Discussed and Agreed matters in the 5th Steering Committee Meeting

1. The Team Leader of the JICA Team explained about the progress of the Project, and about the additional fulfillments concerning to the recommendations which were given by the Terminal Evaluation Study Team.
2. The Team Leader gave details about the contents of Final Report of the Project, in the context of explanation about the progress of the Project. Syrian side was generally approved the contents of Final Report.
3. Japanese Team member explained about the system establishment for the future training/extension activities in Governorate level, which were conducted by the Project Team until now.
4. Japanese Team member explained about the institutional arrangement for the future training/extension activities in central level including the establishment of national team for SMS training. The team member urged to prepare a letter to Agriculture Minister to ask necessary arrangement and administrative order for the institutional arrangement. Syrian side agreed to take an immediate action on this matter.
5. The Syrian participants confirmed their acceptance to the recommendations of the Terminal Evaluation Study again. Then, the participants discussed about recommendations how to make action plan and how to accomplish it. It was approved that the first categorized recommendations about "subjects to be completed by the end of the Project", were mostly completed by the Project Team until now. Syrian side announced that the second categorized recommendations about "subjects to be accomplished after the Project" should be accomplished in collaboration with Syrian Governmental organizations concerned and international research organizations like ICARDA, ACSAD.
6. The Syrian participants fully approved the completion of the Project. They expressed their satisfaction with the fruitful results of the Project, and strongly requested the necessity of commencing new phase.

Attendants of the 5th Steering Committee Meeting

Wednesday, January 23, 2008
at the General Director's Conference Room in GCSAR

List of the Attendants	
Dr. Majd Jamal	General Director of GCSAR
Dr. Awadis Arsan	Director of ANRR, GCSAR
Dr. Mohammad Abdullah	Director of DOE
E. Ahmad Kadiri	Director of MIC, MAAR
Ms. Sahar Touban	Directorate of MIC, MAAR
E. Imad Kwaifi	IWRM, SPC
E. Sawsan Hilal	Director of feasibility study, SPC
M. Ziad Zahra	National Training Center
E. Bassam Husein	DEITEX Project Counterpart, GCSAR
Dr. Mohammad Karow	Researcher in Water Management, ICARDA
Dr. Ammar Wahbi	Soil – Plant water relations, ACSAD
Mr. Satoshi Baba	Second Secretary, Embassy of Japan
Mr. Ghassan Habbal	Senior Assistant, Embassy of Japan
Ms. Akiko Tomita	Resident Representative of JICA Syria Office
Mr. Hider Hider	Program officer, JICA Syria Office
Dr. Shuichi Matsushima	Team leader of DEITEX Project team
Mr. Akira Koto	Co-leader of DEITEX Project team
Mr. Hiroyasu Onuma	Team member of DEITEX Project team
Mr. Eiichi Takigawa	Team member of the DEITEX Project team
Ms. Rahaf Kahwaji	Secretary of the DEITEX Project team

Annex 4

研修コースの詳細情報



The 1st Training Course for Water Extensionist

Subject	Survey & Diagnosis of Irrigated Farm
Objective	How to conduct farmers survey in order to identify farmer's current conditions.

Major Outputs of the 1st Training Course

Output 1	The participants understand the role of water extensionist.
Output 2	The participants understand important points to conduct farmers survey.
Output 3	The participants will be able to diagnose modern irrigation system according to check list.

Structure of the 1st Training Course

Introduction

Introduction of DEITEX	Role of Water Extensionist
Agriculture & Irrigation in Syria	Extension System in Syria
Irrigation Methods	Training Structure of Water Extensionist
Necessity of Saving water & DEITEX	Role of Water Extensionist

Lecture: Farm Survey

Necessity of Farm Survey	Selection of Farmers
Importance of Needs Assessment	Selection of Target Farmers
Method of Farm Survey	

Case Study: Survey on Farmer's Irrigation Amount
Survey Method
Practice: Survey on Farmer's Irrigation Amount

Practice: Farm Survey

Preparation of Check Sheet for Farm Survey
Workshop: Discussion of Survey Items of Check Sheet
Preparation of Check Sheet of Farm Survey

Practice: Conducting Farm Survey	Analysis of the Survey Result
Conducting Farm Survey by Check Sheet	Utilizing the Survey Result
Conducting Farm Survey by GPS	Diagnosis Farmer's Irrigation System

1st Training Course Program: Survey & Diagnosis of Irrigated Farm

Day	Major Subject	Venue
Day 1	Introduction, Role of Water Extensionist	Training Room
Day 2	Farmer Survey Method	Training Room
Day 3	Preparing Check List for Farmer Survey	Training Room
Day 4	Conducting Farmer Survey	Farm
Day 5	Analyzing the Survey Result	Training Room

Day	Time	Subject
Day 1	09:00 – 09:30	Opening of the Training Course
	09:30 – 10:00	Pre-Evaluation
	10:00 – 11:00	Benchmark Test
	11:00 – 11:30	(Break)
	11:30 – 11:45	Promotion Video
	11:45 – 12:30	Introduction of the DEITEX Project Activities
	12:30 – 13:00	(Break)
	13:00 – 13:30	Extension System and Extension Program in Syria
	13:30 – 14:00	Role of the Water Extensionist
Day 2	09:00 – 09:30	Necessity of Farmers Survey (Significance of problem analysis and needs assessment)
	09:30 – 10:30	Selecting Farmers (Utilization of readily available information)
	10:30 – 11:00	(Break)
	11:00 – 12:00	Method of Farmers Survey (Understanding of farmers problems and needs)
	12:00 – 12:30	(Break)
	12:30 – 13:30	Case Study of Survey on farmers' irrigation amount
	13:30 – 14:00	Practice and Presentation of the results by the participants & Discussion
Day 3	09:00 – 09:30	Irrigation Equipment
	09:30 – 10:00	Example of Bad Irrigation System
	10:00 – 10:30	(Break)
	10:30 – 11:30	Workshop to discuss items to be surveyed
	11:30 – 12:30	Preparation of Check List (Diagnosis of Irrigation Facilities)
	12:30 – 13:00	(Break)
	13:00 – 14:00	Finalizing the Check List
Day 4	09:00 – 09:30	Move to the selected farm
	09:30 – 11:30	Execution of Farmers Survey I
	11:30 – 13:30	Execution of Farmers Survey II
	13:30 – 14:00	Back to the office
Day 5	09:00 – 10:30	Analysis of Survey Results
	10:30 – 11:00	(Break)
	11:00 – 12:30	Presentation of Survey Results
	12:30 – 13:00	(Break)
	13:00 – 14:00	Examination & Final Evaluation

The 2nd Training Course for Water Extensionist

Subject	Design, Install, Operation & Maintenance of Irrigation System
Objective	To learn basic and practical knowledge and skills on design, installation and maintenance of modern irrigation system.

Major Outputs of the 2nd Training Course

Output 1	The participants acquire basic knowledge on modern irrigation system design and installation.
Output 2	The participants understand how to measure emitter discharge in the field.
Output 3	The participants understand how to prepare irrigation schedule.

Structure of the 2nd Training Course

Introduction

Irrigation Equipment	Case Study: Demonstration Farm
Name & Function of Irrigation Equipment	Lessons Learned from Demo Farm

Lecture: Design, Installation & Operation of Irrigation System

Design of Irrigation System	Preparing Irrigation Schedule
Determination of Pipe Diameter	Crop Water Requirement
Hydraulic Calculation	Utilizing Research Results
Calculation of Irrigable Area	Preparing Irrigation Schedule
	Monitoring of Demonstration Farm
	Monitoring Method of Demo Farm
	Utilizing Monitoring Data

Practice: Design, Installation & Operation of Irrigation System

Practice: Measurement of Emitter Discharge	Practice on Pipe Fitting
Field Measurement of Discharge and Pressure	Understanding of basics on installation
Analyze the Result & Diagnosis Irrigation System	Experience of pipe fitting practice

Visiting Demonstration Farm
Observing irrigation equipment

Visiting Irrigation Research Station
Understanding research activities
Observing meteorological station

Training Program : Basic Information on the Modern Irrigation System for Water Extensionists

Day	Major Subject	Venue
Day 1	Introduction, Irrigation Equipment	Training Room
Day 2	Irrigation System Design	Training Room
Day 3	Field Measurement of Emitter Discharge	Training Room
Day 4	Practice on Pipe Fitting, Preparing Irrigation Schedule	Training Room
Day 5	Establishing and Monitoring of Demonstration Farm	Training Room

Day	Time	Subject
Day 1	09:00 – 09:30	Opening of the Training Course
	09:30 – 10:00	Pre-Evaluation of the participants
	10:00 – 10:30	Evaluation of the 1st Training Course
	10:30 – 11:00	Video Presentation
	11:00 – 11:30	(Break)
	11:30 – 12:30	Introduction to Irrigation Equipment [Lecture]
	12:30 – 13:30	Introduction to DEITEX Demonstration Farm [Lecture]
Day 2	09:00 – 10:00	Basic Information on the Irrigation System Designing (1) [Lecture]
	10:00 – 11:00	Basic Information on the Irrigation System Designing (1) [Practice]
	11:00 – 11:30	(Break)
	11:30 – 13:00	Basic Information on the Irrigation System Designing (2) [Lecture]
	13:00 – 14:00	Basic Information on the Irrigation System Designing (2) [Practice]
Day 3	09:00 – 09:30	Important Points on Installation, O & M of Irrigation System [Lecture]
	09:30 – 12:00	Field Measurement of Emitter Discharge [Practice]
	12:00 – 12:30	(Break)
	12:30 – 13:30	Activities and Facilities of Irrigation Research Station [Lecture & Visit]
	13:30 – 14:00	Field Measurement of Soil Moisture & Soil Characteristics [Practice]
Day 4	09:00 – 10:30	Practice on Pipe Fitting [Practice]
	10:30 – 11:00	(Break)
	11:00 – 12:30	Preparing Irrigation Schedule (1) [Lecture] & [Practice]
	12:30 – 13:00	(Break)
	13:00 – 14:00	Preparing Irrigation Schedule (2) [Lecture] & [Practice]
Day 5	09:00 – 10:00	Considerations for the design and installation of the demonstration farm [Lecture]
	10:00 – 10:30	Monitoring of the Demonstration Farm
	10:30 – 11:00	(Break)
	11:00 – 12:00	Examination & Final Evaluation
	12:00 – 13:00	Closing of the Training Course

The 3rd Training Course for Water Extensionist

Subject	Preparing Extension Materials
Objective	To learn how to prepare extension message for the effective technology transfer to farmers.

Major Outputs of the 3rd Training Course

Output 1	The participants understand how to conduct problem analysis to identify farmer's problem.
Output 2	The participants produce extension poster based on the identified farmer's problem.
Output 3	The participants produce extension brochure related to the poster.

Structure of the 3rd Training Course

Lecture: Extension Materials

Kind of Extension Activities & Current Situation	Kind of Extension Materials
Results of Baseline Survey on Extension Activities	Kind & Characteristics of Extension Materials
Impact Analysis of Current Extension Activities	Important Points to prepare Extension Materials

Practice: Preparing Extension Materials

Problem Analysis Workshod
Problem Analysis on Farmer's Irrigation
Identify Problems through Workshop Discussion

Preparing Extension Poster	Preparing Extension Brochure
Reviewing the Result of Problem Analysis	Important Points to prepare Extension Brochure
Preparing Extension Poster based on the Identified Problems	Practice: Preapring Extension Brochure

Lecture: Preparing Extension Materials (Related Issues)

Farm Economy Survey	Preparing Extension Video by Power Point
Importance of Data Collection	Introduction of Necessary Steps & Basic Technique
Monitoring Activity of Demo Farm	

Raising Awareness by Competition
Significance of Competition to raise Awareness

3rd Training Course Program : Preparing Extension Materials

Day	Major Subject	Venue
Day 1	Extension Activities, Kinds and Role of Extension Message	Training Room
Day 2	Problem Analysis, How to prepare Extension Poster	Training Room
Day 3	How to prepare Extension Brochure	Training Room
Day 4	Farm Economy Survey, Importance of Recorded Data	Training Room
Day 5	How to utilize various Software, How to organize various Competitions	Training Room

Day	Time	Subject
Day 1	09:00 – 09:30	Pre-Evaluation
	09:30 – 10:00	Review of the previous training course
	10:00 – 10:30	Promotion video
	10:30 – 11:00	(Break)
	11:00 – 11:45	[Lecture] Extension activities
	11:45 – 12:30	[Lecture] Kind and role of message
	12:30 – 13:00	(Break)
	13:00 – 14:00	[Workshop] Introduction to problem analysis
Day 2	09:00 – 10:00	[Workshop] Problem analysis and how to select the subject
	10:00 – 11:00	[Practice] Discussion on selected subject and sample poster
	11:00 – 11:30	(Break)
	11:30 – 14:00	[Practice] Preparation of Extension Poster by Group
Day 3	09:00 – 10:00	[Lecture] How to prepare Extension Brochure
	10:30 – 11:30	[Practice] Preparation of sample extension brochure
	11:30 – 12:00	(Break)
	12:00 – 14:00	[Practice] Preparation of Extension Brochure by Group
Day 4	09:00 – 10:30	[Workshop] Discussion on Farm Economy Survey
	10:30 – 11:00	(Break)
	11:00 – 12:30	[Practice] Farm Economy Survey as Role Play
	12:30 – 13:00	(Break)
	13:00 – 14:00	[Lecture] Importance of Recorded Data
Day 5	09:00 – 10:30	[Lecture] How to utilize various Software such as Power Point and Photoshop
	10:30 – 11:00	(Break)
	11:00 – 12:30	[Lecture] How to organize various Competitions such as Poster Competition and Village Theater Competition
	12:30 – 13:00	(Break)
	13:00 – 14:00	Examination & Final Evaluation

The 4th Training Course for Water Extensionist

Subject	Organizing Field Day
Objective	To learn how to organize field day activity in order to transfer information and techniques on irrigation to farmers in practical and effective way.

Major Outputs of the 4th Training Course

Output 1	The participants understand how to prepare field day.
Output 2	The participants understand how to implement field day.
Output 3	The participants understand how to evaluate and report field day.

Structure of the 4th Training Course

Introduction
Introduction of Field Day
Different Kind of Extension Activity
New Concept of Field Day

Lecture: How to conduct Extension Activity

Training & Extension System	Case Study: Field Visit in Surghaya
Introduction of the DEITEX System	Outline of the Activity
Preparation of Extension Activity	How to prepare, conduct & evaluate

Preparation

(1) Preparing Extension Program	(2) Rehearsal
Group Discussion to prepare Activity Sheet & Timetable	Conducting rehearsal
Preparing Evaluation Questionnaire	Modifying the Program

Implementation

Conducting Field Day
Implementation of Field Day
Discussion after the Implementation

Evaluation & Reporting

How to prepare Activity Report
Presentation of the Activity in Evaluation Meeting

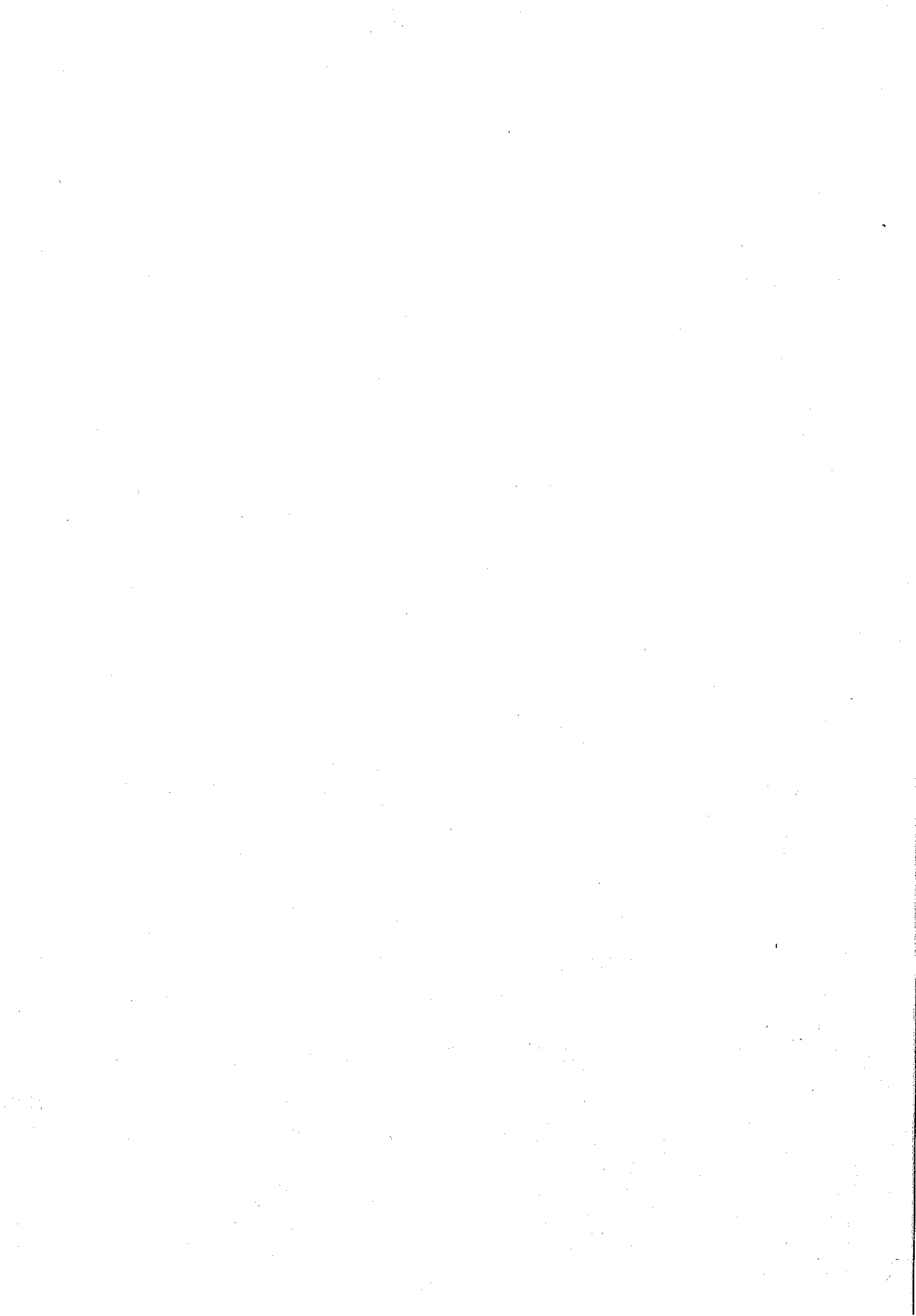
4th Training Course Program : Organizing Field Day

Day	Major Subject	Venue
Day 1	Introduction	Training Room
Day 2	Preparation 1	Training Room
Day 3	Preparation 2 (Rehearsal)	Field
Day 4	Field Day (Implementation)	Field
Day 5	Evaluation and Reporting	Training Room

Day	Time	Subject
Day 1	09:00 – 09:15	Pre-Evaluation
	09:15 – 09:30	Promotion video
	09:30 – 09:45	Review of the previous training course
	09:45 – 10:30	[Lecture] Introduction to Field Day
	10:30 – 11:00	(Break)
	11:00 – 12:00	[Lecture] Training and Extension System of DEITEX Project
	12:00 – 12:30	(Break)
	12:30 – 14:00	[Case Study] Field Day in Surghaya
Day 2	09:00 – 10:00	Group Discussion on Field Visit (Technical Demonstration) Program
	10:00 – 10:30	(Break)
	10:30 – 12:00	Preparation of Pre-Evaluation & Final Evaluation
	12:00 – 12:30	(Break)
	12:30 – 14:00	Presentation of the Result of Discussion
Day 3	09:00 – 11:00	Conducting Rehearsal of the Field Visit Program
	11:00 – 11:30	(Break)
	11:30 – 12:30	Discussion for Modifying the Field Visit Program
	12:30 – 13:00	(Break)
	13:00 – 14:00	Finalization of the Activity Sheet for the 4th Day
Day 4	09:00 – 09:30	Introduction of the today's activity
	09:30 – 12:00	[Field Day] Measurement of emitter discharge under different operation pressure with invited farmers (at Nashabie)
	12:00 – 12:30	(Break)
	12:30 – 14:00	Discussion on the Result
Day 5	09:00 – 10:00	Evaluation meeting
	10:00 – 10:30	(Break)
	10:30 – 12:00	Examination & Final Evaluation
	12:00 – 13:00	Closing ceremony

Annex 5

灌漑研修員および灌漑専門員 (SMS) 研修



List of the Qualified Water Extensionist by the DEITEX Ptroject

No	Name		Arabic Name	Governorate	Employment	Year
1	Majd Al Housh		مجد الحوش	RDamascus	Arne	2006
2	Salim Shahin		سليم شاهين	RDamascus	Arne	2006
3	Amal Nour Din		أمل نور الدين	RDamascus	Bait Tima	2006
4	Zuhair Rajeh		زهير راجح	RDamascus	Bait Tima	2006
5	Wassim Ramadan		وسيم رمضان	RDamascus	Bait Saber	2006
6	Ahmad Ali Mhammad		أحمد علي محمد	RDamascus	Qatana Maslaha	2006
7	Walif Hassoun		وليف حسون	RDamascus	Haramoun Maslaha	2006
8	Amer Mazoukh		عامر مازوخ	RDamascus	Kafr Hour	2006
9	Hussam Nakhleh		حسام نخلة	RDamascus	Surghaya	2006
10	Hussam Ghabra		المهندس حسام غبرة	RDamascus	Dimas	2006
11	Ilham Zaidan		إلهم زيدان	RDamascus	Deir Qanoun	2006
12	Zaher Abdallah		زاهر العبدالله	RDamascus	Extension, Sahanaya	2006
13	Janet Hasan		جانيت حسن	RDamascus	R Woman, Sahanaya	2006
14	Diab Al Hanash		دياب الحنش	RDamascus	DMIC	2006
15	Rasha Al Nabwane		رشا النبواني	RDamascus	DMIC	2006
16	Safa Muhana		صفاء مهنا	RDamascus	DMIC	2006
17	Abdul Karem Wassof		عبد الكريم وسوف	RDamascus	DMIC	2006
18	Ily Hadad		إيليا حداد	RDamascus	DMIC	2006
19	Marwan Kiwan		مروان كيوان	Daraa	Tafas	2006
20	Waleed Al Sharif		وليد الشريف	Daraa	Daiel	2006
21	Khalid Al Masri		خالد المصري	Daraa	Daiel	2006
22	Mohamed Al Husain		محمد الحسين	Daraa	Ebbta	2006







List of the Qualified Water Extensionist by the DEITEX Ptoject

No	Name		Arabic Name	Governorate	Employment	Year
23	Muamar Al Khalil		معمر الخليل	Daraa	Mzerieb	2006
24	Husain Ramadan		حسين رمضان	Daraa	Jileen	2006
25	Muneeb Al Jibawi		منيب محمود الجبوي	Daraa	Jasem	2006
26	Kasem Abou Jabal		قاسم محمد أبو جبل	Daraa	Sheikh Saed	2006
27	Ayham Zain Abideen		المهندس ايهم زين العابدين	Daraa	Tseel	2006
28	Haisam Al Jelm		هيثم ابراهيم الجلم	Daraa	Jasem	2006
29	Nidar Al Khalil		نضال خالد الخليل	Daraa	Nawa	2006
30	Husain Shinowan		حسين شنوان	Daraa	Extension, Daraa	2006
31	Nabeel Kiwan		نبيل كيوان	Daraa	Tafas Maslaha	2006
32	Ibrahim Teisan		ابراهيم تعيسان	Daraa	Nawa Maslaha	2006
33	Mhamad Abdoullah		محمد عبد الله	Daraa	Daraa Agriculture D	2006
34	Muneer Warad		منير وراذ	Daraa	Daraa Agriculture D	2006
35	Mhamad Khraiba		محمد خريبة	Daraa	Jileen Irrigation S	2006
36	Mhamoud Shahadat		محمود الشحادات	Daraa	DMIC	2006
37	Shaker Zneqa		شاكز زنيقة	Daraa	DMIC	2006
38	Mhamad Haj Hasan		محمد الحاج حسن	Hama	Kafr Zeita	2006
39	Omar Omar		عمر العمر	Hama	Latamne	2006
40	AbdulNasr Al Qasoum		عبد الناصر القسوم	Hama	Hamamiat	2006
41	Hasan Bazow		المهندس حسن بازو	Hama	Kafr Zeita	2006
42	AbdulMonam Al Shaar		عبد المنعم الشعار	Hama	Kafr Zeita	2006
43	Asi Asi		عاصي عاصي	Hama	Majdal	2006
44	Ahmad Othman		أحمد العثمان	Hama	Halfaya	2006

List of the Qualified Water Extensionist by the DEITEX Pproject

No	Name		Arabic Name	Governorate	Employment	Year
45	Ahmad AbdulMalik		أحمد عبد الملك الحسن	Hama	Maerzaf	2006
46	Mahmoud Aziz A Abd		محمود العبد	Hama	Zalaqiat	2006
47	Mohamad Omar		محمد عمر الخطيب	Hama	Shaikha	2006
48	Saleh Mansour		صالح منصور	Hama	Rabiaa	2006
49	Mohamad Moafak Al Najar		محمد موفق النجار	Hama	Tizeen	2006
50	Obaida Agha		عبيدة مراد آغا	Hama	Hama	2006
51	Husam Obaysi		حسام عبيسي	Hama	Extension, Hama	2006
52	Mahmoud Al Nahir		محمود نهير	Hama	Extension, Hama	2006
53	Shadi Farouh		شادي فروح	Hama	DMIC	2006
54	Khudr Hamoud		خضر حمود	Hama	DMIC	2006
55	Hanan Abidow		حنان عبيدو	Hama	DMIC	2006
56	Ossama Muhanna		اسامة المهنا	RDamascus	Zubdin, Gouta	2007
57	Rafiq Labbad		رفيق لباد	RDamascus	Nashabie, Douma	2007
58	Dalal Koshuha		دلال قوشحا	RDamascus	Haran, Haran	2007
59	Imad Al Haj Ali		عماد الحاج علي	Daraa	Ghazale	2007
60	Abdul Razak Saleme		عبد الرزاق سلامة	Daraa	Karak	2007
61	Ahmad Ali Rifai		احمد الرفاعي	Daraa	Sanamein	2007
62	Abdul Hakim Al Hamid		عبد الحكيم الحميد	Daraa	Enkhal	2007
63	Khaldoun Al Ghazale		خلدون الغزالي	Daraa	Namer	2007
64	Mhamad Al Khalil		محمد الخليل	Hama	Tibet Al Imam, Soran	2007
65	Mohidin Adel Al Khalaf		محي الدين الخلف	Hama	Morek, Soran	2007
66	Abdul Moaen Gazallah		عبد المعين غزالة	Hama	Khatab, Hama	2007

List of the Qualified Water Extensionist by the DEITEX Ptroject

No	Name		Arabic Name	Governorate	Employment	Year
67	Abdullah Hayder		عبد الله حيدر	Hama	Tal Al Dara, Salamie	2007
68	Hasan Shino		حسن شنو	Hama	Deir Al Fardes, Harrbenafso	2007
69	Samar Dibyat		سمر الدبيات	RDamascus	DMIC	2007
70	Sulaiman Shahin		سلمان شاهين	Ghab	DMIC	2007
71	Ali Saleh Rabia		علي ربيع	Lattakia	DMIC	2007

List of the Qualified Irrigation SMS by the DEITEX Ptroject

No	Name		Arabic Name	Governorate	Employment
1	Majd Al Housh		مجد الحوش	RDamascus	Arne
2	Amer Mazoukh		عامر مازوخ	RDamascus	Kafr Hour
3	Ahmad Ali Mhammad		أحمد علي محمد	RDamascus	Qatana
4	Walif Hassoun		وليف حسون	RDamascus	Haramoun Maslaha
5	Zaher Abdallah		زاهر العبدالله	RDamascus	Sahanaya, Extension Section
6	Kasem Abou Jabal		قاسم محمد أبو جبل	Daraa	Seikh Saad
7	Haisam Al Jelm		هيثم ابراهيم الجلم	Daraa	Jasem
8	Omar Omar		عمر العمر	Hama	Latamne
9	Mohamad Moafak Al Najar		محمد موفق النجار	Hama	Tizeen
10	Hasan Bazow		حسن بازو	Hama	Kafr Zeita Maslaha
11	Husam Obaysi		حسام عبيسي	Hama	Hama Extension Section
12	Mahmoud Al Nahir		محمود نهير	Hama	Hama Extension Section
13	Ily Hadad		إيليا حداد	RDamascus	DMIC
14	Shaker Zneqa		شاكِر زنيقة	Daraa	DMIC
15	Shadi Farouh		شادي فروح	Hama	DMIC



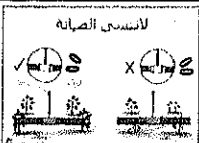

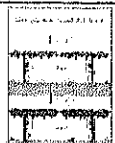





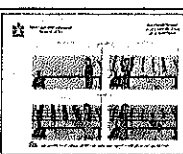

Annex 6


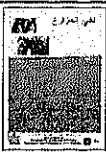



普及ツール






List of Posters Produced under DEITEX

Number of Poster	No. 1	No. 2	No. 3	No. 4	No. 5
Title of Poster	Control Unit	Filter Cleaning	Sprinkler	Flow Meter	Spagetti Tube
Image of Poster					
Contents of Poster	Typical Layout of Control Unit	Importance of Cleaning Filter in Proper Manner	Importance of Fixing Rubber Fitting for Sprinkler	Importance of Installing Flow Meter in Control Unit	Importance of Fix Emitter at the End of Spagetti Tube
Distributed To	Damascus	225	225	225	225
	Daraa	225	225	225	225
	Hama	225	225	225	225
	Others	125	125	125	125
	Total	800	800	800	800

Number of Poster	No. 6	No. 7	No. 8	No. 9	No. 10	
Title of Poster	Water Saving	Water Saving	Warning	Water Conservation	Water Saving	
Image of Poster						
Contents of Poster	Importance of Saving Irrigation Water	Importance of Saving Irrigation Water	Present Situation of Groundwater Depletion	Modern Irrigation for Water Conservation	Importance of Saving Irrigation Water	
Distributed To	Damascus					
	Daraa		225			
	Hama		225			
	Others	21	125	30		50
	Total	21	800	30	5,000 In All Syria	50

Number of Poster	No. 11	No. 12	No. 13	No. 14	No. 15	
Title of Poster	Water Saving	Water Saving	Drip Emitter	Warning	Water Saving	
Image of Poster						
Contents of Poster	Importance of Saving Irrigation Water	Importance of Saving Irrigation Water	Drip Emitter For Tree	Importance of Water Conservation	Importance of Water Saving	
Distributed To	Damascus	225				
	Daraa	225				
	Hama	225				
	Others	125	50	50	50	50
	Total	800	50	50	50	50

Number of Poster	No. 16	No. 17	No. 18	No. 19	No. 20
Title of Poster	Sprinkler	Advantage	Warning		
Image of Poster					
Contents of Poster	Pressure Control for Sprinkler	Advantage of Modern Irrigation	Warning		
Distributed To	Damascus		225		
	Daraa		225		
	Hama		225		
	Others	50	125		
	Total	50	800		

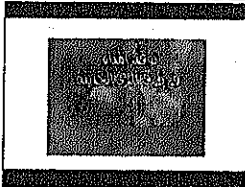
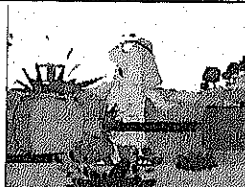
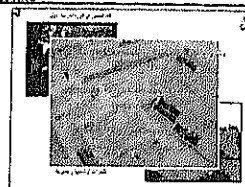


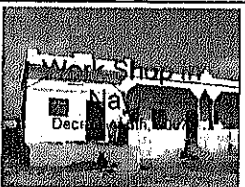


List of Brochures Produced under DEITEX

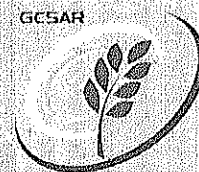
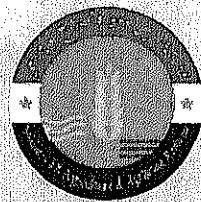
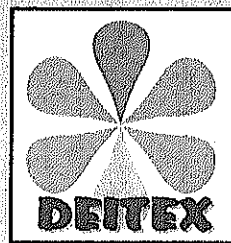
Number of Brochure	No. 1	No. 2	No. 3	No. 4	
Title of Brochure	DEITEX	Filter Cleaning	Installation	Crop Water Requirement	
Image of Brochure					
Contents of Brochure	Introduction of DEITEX Project	Timing and Method of Filter Cleaning	Proper Installation of Irrigation System	Calculation of Irrigation Interval and Irrigation	
Distributed To	Damascus	200	2500	2500	2500
	Daraa	200	2500	2500	2500
	Hama	200	2500	2500	2500
	Others	1,400	1500	1500	500
	Total	2,000	9000	9000	8000

Number of Brochure	No. 5	No. 6	No. 7	No. 8	
Title of Brochure	Upper and Lower Stream	Improper Irrigation System	Water Conservation	Agricultural Loan	
Image of Brochure					
Contents of Brochure	Water Resource is Common Resource for All	Improper System does not assure anticipated yield	Modern Irrigation for Water Conservation	Agricultural Loan for Modern Irrigation	
Distributed To	Damascus	2500	2500	2500	
	Daraa	2500	2500	2500	
	Hama	2500	2500	2500	
	Others	500	500	500	
	Total	8,000	8,000	8,000	15,000 in All Syria

Number of Brochure	No. 9	No. 10	No. 11	No. 12
Title of Brochure	Advantage			
Image of Brochure				
Contents of Brochure	Advantage of Modern Irrigation			
Distributed To	Damascus	2500		
	Daraa	2500		
	Hama	2500		
	Others	500		
	Total	8,000		

Lst of Promotion Video under DEITEX

Number of Video	No. 1	No. 2	No. 3
Title of Video	Promotion Video for the Introduction of DEITEX	Promotion Video for Design, Installation, O&M of Irrigation System	Promotion Video for Preparing Extension Materials
Image of Video			
Summary Contents	<ul style="list-style-type: none"> - Importance of agriculture and water - Present situation on water resources - Balance of water demand and supply - Importance of water saving agricultural - Present situation on research and extension activities - Objectives and activities of DEITEX 	<ul style="list-style-type: none"> - Present situation on underground water depletion - Importance of introducing modern irrigation system - Model of typical control unit - Model of typical field network - Actual installation work - Formulation of irrigation schedule - Comparison of good and bad maintenance - Image of ideal water extensionis 	<ul style="list-style-type: none"> - Establishment of water Extension System - Activities during the first training course - Activities during the second training course - Objectives of 3rd and 4th training course - Kinds and roles of extension messages - Extension Brochure - Extension Poster - Video Program - Mobile Theater - Image of Ideal Water Extensionis
Distributed To	Damascus	25	25
	Daraa	25	25
	Hama	25	25
	Others	25	25
	Total	100	100
Number of Video	No. 4	No. 5	No. 6
Title of Video	Promotion Video for Organizing Field Day	Promotion Video for Model Extension Activities in Rural Damascus	Promotion Video for Model Extension Activities in Daraa
Image of Video			
Summary Contents	<ul style="list-style-type: none"> - Advantages of modern irrigation system - How to use modern irrigation system properly - Proper Design and Installation - Proper Design - Proper Installation - Proper Operation - Appropriate Amount of Irrigation Water - How to Apply Appropriate Amount - Proper Maintenance - Maintenance of Control Unit and Network 	<ul style="list-style-type: none"> - Model field visit on diagnosis of modern irrigation system for fruit crops - Model seminar on installation and maintenance of drip irrigation system - Model workshop on disturbance of fruit trees due to change of irrigation system from surface to drip - Model fair on advantage and proper operation of modern irrigator 	<ul style="list-style-type: none"> - Model field visit on diagnosis of modern irrigation system (GR) - Model seminar on crop-wise water management under modern irrigation system - Model field day on proper installation of modern irrigation system - Model workshop on economic evaluation of tomato cultivation
Distributed To	Damascus	25	25
	Daraa	25	25
	Hama	25	25
	Others	25	25
	Total	100	100
Number of Video	No. 7	No. 8	No. 9
Title of Video	Promotion Video for Model Extension Activities in Hami	Technical Video for Installation of Irrigation Network	
Image of Video			
Summary Contents	<ul style="list-style-type: none"> - Model field day on introduction of drip irrigation system for cotton cultivation - Model practical demonstration on proper pressure distribution of sprinkler system - Model field visit on proper discharge distribution of sprinkler system - Model mobile theater on the advantage of modern irrigation system 	<ul style="list-style-type: none"> - Proper PE pipe connection - Proper fixation of main & submain pipes - Proper GR connection to sub-main pipe - Proper fixation of drip emitters on lateral - Proper fixation of mini-sprinklers on lateral - Proper fixation of sprinkler on lateral 	
Distributed To	Damascus	25	
	Daraa	25	
	Hama	25	
	Others	25	
	Total	100	100



الهيئة العامة للتخزين القليظة الزراعية