Sustainable Water Integrated Management Support Mechanism
SWIM – SM
Project funded by the EU

CIHEAM
IAM Bari

MONEVA System
MONitoring and EVAluation System

M&E System Application to monitor & evaluate the Participatory Irrigation Management (PIM) and Irrigation Management Transfer (IMT) Process

Activity implemented in collaboration with CIHEAM/IAM Bari

CIHEAM
IAM BARI

Management Report

Rev. 1.7

Table of Content

1. Introduction

The Monitoring and Evaluation (M&E) System for Participatory Irrigation Management (PIM) and Irrigation Management Transfer (IMT) Process developed under the framework of SWIM-SM comprises four modules as follows:

1. **Module A** - Assesses the degree of political commitment towards the PIM/IMT process and the adequacy of the existing institutional arrangements in support of the establishment of the Water Users Associations (WUAs).
2. **Module B** - Assesses the performance of irrigation agencies in the implementation of the PIM/IMT program.
3. **Module C** - Assesses the institutional, financial and technical performance of Water Users Associations.
4. **Module D** - Assesses the impact of WUAs' establishment.

The system includes a list of output indicators representing the main elements to be monitored and evaluated and corresponding to a set of expected outcomes and is intended and conceived as a Decision Support System.

MONEVA System software is a user-friendly computer application developed, based on and integrating the above, and customized to suit the national and local conditions of the different countries of the Region.

MONEVA System is provided with two types of installation which refer to two different levels of application, use and management in a Country that is the **National/Central level** and **the Regional level**, in its turn direct interlocutor of the Local Offices/WUAs established in a certain area.

Each level provides access to its own database through two different profiles of users: Administrator profile and User profile with different privileges of use. An administrator can access/edit/operate the entire system while a generic user can only access the system to navigate through its different features, data sets and generated reports.

Each outcome is assigned a code which recalls the corresponding affinity module (A, B, C or D). This applies as well to the outputs, which are assigned codes recalling the corresponding affinity outcome, for example Outcome A.3 is evaluated through two Outputs A.3.1 and A.3.2.

The codification of the output variables/indicators is more complicated, as a variable/indicator may be directly or indirectly evaluated. In the first case the corresponding affinity module shows in the code, in the second another sequence of letters is used as shown in Table 1.

Table 1 – Codification of variables and indicators: Affinity with M&E modules

LETTER USED FOR CODIFICATION	AFFINITY
A	Module A
B	Module B
C	Module C
D	Module D
M	Calculated from monitoring data of Module A
N	Calculated from monitoring data of Module B
P	Calculated from monitoring data of Module C
T	Calculated from monitoring data of Module D
R	Retrieved; already existing in the system and used after applying different criteria for aggregation.
N/R	At the end of a code, there could be a N or R that indicates the indicator is duplicated in the system at National and Regional level.

For example Output A.3.1 is evaluated through the scores achieved by the variables/indicators A03010; M03020; M03032; M03033; M03040; and Output A.3.2 is evaluated through the scores achieved by the variables/indicators M03050; M03063 and M03064.

The Final Letter "N" or "R" which affects in some cases a variable/indicator indicates the level at which this variable/indicator is monitored/evaluated i.e. National or Regional.

This is necessary as in many cases, the same variable/indicator is monitored at different levels, allowing for different typologies of evaluation reports as detailed in the sections: 1.1, 1.2 and 1.3.

At the local level, Monitoring is performed through simple PDF modules consisting of fields that allow for a pre–guided compilation by the WUAs and for their transmission to the Regional offices they are affiliated to. The Regional offices provided with a M&E system with Data Base having the ability to check and incorporate the data/info collected by the local offices (WUAs), and for their subsequent evaluation with no interference on the result, are responsible for

providing the WUAs with the executed Evaluation (see Users' Guide for Local Offices).

The overall Monitoring and Evaluation process is schematically shown in Fig. 1.

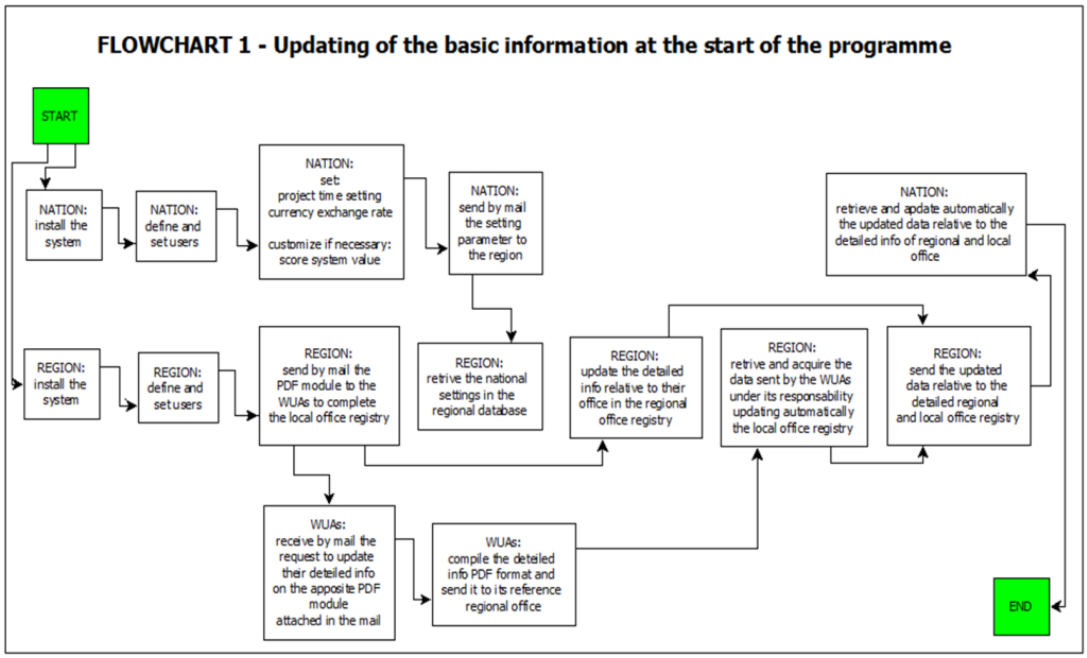


Fig. 1 – Schematic representation of the overall Monitoring and Evaluation process

The National and Regional Offices install MONEVA System and define and set users and relative passwords independently. Moreover, they perform different workflows depending on their respective roles, as described below.

1.1 National Offices workflow

As a first step, fundamental initial settings should be defined and compiled i.e. the project time and important dates, the currency exchange rates and the Regional Office Registry.

In this initial phase, customization should take place as well, if necessary, i.e. National Offices can select the set of indicators to apply among the ones proposed by the system and customize the default scoring criteria for indicators or variables and their application periods.

After these actions are achieved, the National Office sends the updates to the Regional Offices by email or other means (for more details please refer to chapter 5 of Users' Guide Database for National/Central Office).

1.2 Regional Offices workflow

Once the users are well defined and usernames, passwords and profiles (security levels) are assigned, Regional Offices retrieve settings sent by the National office as described previously (please refer to section 9.1.1 of Users' Guide Database for Regional Office).

Before undertaking any M&E action, the Regional Offices update their detailed infos relative to their own office in the Regional Office registry and send it back to the National office (please refer to chapter 5.4 of Users' Guide Database for Regional Office); they as well send by e mail, on a digital support or even as a hard copy, to the WUAs, the PDF modules entitled "Detailed Info " for compilation, the PDF Monitoring module entitled "once at the start frequency" customized after the definition of the Reference Year (Ry) at National Level (Ry is a feature of PIM/IMT important dates defined under Utility and Tools at National Level) and the remaining PDF modules that may be customized if necessary at National level. Once the Detailed Info of the Local Offices are completed and updated by the WUAs, they are sent back to the appropriate Regional Office to update its Local Office registry (please refer to chapter 5.5 of Users' Guide Database for Regional Office).

1.3 Local Offices (WUAs) workflow

The Local Offices update their basic information (Detailed Info module) and the M&E data using a set of PDF forms customized at National Level and sent to them by the appropriate Regional office. The PDF modules allow for a pre-guided compilation. The compiled data are thus sent back to Regional Offices by email or other means, stored as XML files generated by a specific procedure available in the PDF form itself (please refer to the Users' Guide for Local Offices).

2. Monitoring and Evaluation

The Monitoring and Evaluation workflow is performed at three levels, described more in detail in the following chapters.

2.1 First level evaluation

This is a standard evaluation generated per output/outcome and performed at National, Regional and Local level. It shows the relative level of achievement by assigning scores to the corresponding variables/indicators according to preset scoring criteria, and by comparing the totals to a Maximum Number of Points (MNP) that can be scored.

The system distinguishes among four levels of achievement:

1. The Total number of points scored is = 100% MNP then the outcome/output is fully achieved.
2. The Total number of points scored is ≥ 70% and < 100% MNP then the progress is satisfactory but improvements are needed.
3. The Total number of points scored is ≥ 30% and < 70% MNP then the progress is medium and considerable improvements are needed.
4. The Total number of points scored is < 30% MNP then the progress is low and important improvements are needed.

2.2 Second level evaluation

It is performed at National and Regional level and reports aggregated data:

1. Regional and/or Local data are aggregated at National level and statistics are shown, comparing where it applies the National data to the aggregated Regional and/or Local data: Sum, Average, Maximum and Minimum apply for numerical variables and simple count for logical indicators.
2. Local data are aggregated at Regional level and statistics are shown, comparing where it applies the Regional data to the aggregated Local data: Sum, Average, Maximum and Minimum apply for numerical variables and simple count for logical indicators.

2.3 Third level evaluation

It is performed at National and Regional level and shows trend graphs of some correlated parameters.

3. System prerequisites

MONEVA System intended to perform all the activities related to the Monitoring and Evaluation processes, was developed with Microsoft Access 2010 Runtime. Microsoft Access 2010 Runtime enables to distribute Access 2010 applications to the users who do not possess the full version of MS Access 2010.

3.1 Hardware prerequisites

The minimum hardware requirements for the installation and running of MONEVA system are specified below:

- ✓ CPU 1GHz x86 or x64 bit architecture with SSE2 instruction set.
- ✓ 1 GB of RAM (32 bit) or 2 GB of RAM (64 bit).

- ✓ 3 GB of available Hard Disk space.
- ✓ Graphics hardware acceleration with a Direct X10 graphics card capable of 1024 x 576 resolution.

3.2 Software prerequisites

The operating systems supported by Microsoft Access 2010 Runtime are the following: Windows 7; Windows 8; Windows Server 2003 R2 (32-Bit x86); Windows Server 2003 R2 x64 editions; Windows Server 2008 R2; Windows Server 2008 Service Pack 2; Windows Vista Service Pack 1; Windows XP Service Pack 3.

For Windows XP Service Pack 3, only Access 2010 Runtime 32 bit is supported.

It is also necessary to update the system libraries with the software .NET version 3.5, 4.0 or 4.5 that can be downloaded and installed via the Windows Update utility.

4. Installing MONEVA System

MONEVA System is provided to National and Regional Offices as an installation package. If the National Authorities need to customize, modify or adapt the system for specific purposes, the source VBA code can be provided for free upon request to CIHEAM - IAMB.

The installation is divided into two parts:

The first covers Microsoft Access 2010 Runtime and the second the database application itself, performed by Microsoft Access 2010 Runtime.

For both, the software should be installed with administrator privileges in order to make available the application to all users.

The following links allow to download Microsoft Access 2010 Runtime depending on the available system:

- For a 32 bit system chose the following: http://download.microsoft.com/download/2/6/0/260AA63A-A275-4A92-950D-CE20B490D0B9/AccessRuntime.exe
- For a 64 bit system chose the following: http://download.microsoft.com/download/2/6/0/260AA63A-A275-4A92-950D-CE20B490D0B9/AccessRuntime_X64.exe

Once the file is downloaded and saved into the hard disk, double-click on the AccessRuntime.exe or AccessRuntime_X64.exe file to start the Setup program, and follow the instructions to complete the installation.

When Access Runtime is correctly installed, launch and install the file called MEVS.exe provided with this guide, following the installation wizard and entering the information related to your Institution when prompted. At the end of the installation process, a shortcut on the computer desktop will be created .

Before launching the software, download the file 'mscomct2.ocx' from the following link http://support.microsoft.com/kb/297381/ (the last available version to date of 'mscomct2.ocx' can be also found in C\MEVS\SYSTEM\DLL) and copy it into one of the following paths depending on the hardware and software configurations of your system:

a. C:\Windows\System (Windows 95/98/Me)
b. C:\WINNT\System32 (Windows NT/2000)
c. C:\Windows\System32 (Windows XP, Vista, 7)
d. C:\Windows\SysWOW64 (Windows 7 or 8, 64-bit version)

4.1 Potential errors

The error message shown in Fig. 2 occurs when MS Office 2010 is not installed or when a different system than MS Office 2010 is installed in your computer.

Fig. 2 - Errors that may occur when launching MONEVA System

In this case you have to recover the MS Office installation media and perform the following steps:

1 – Locate and copy the file "MSOUTL.OLB" that you can find as well in:

C:\ MEVS\SYSTEM\DLL

2 – Paste "MSOUTL.OLB" file in the sub-folder "Office 14" which is located, and if not should be created, in one of the following folders according to the system you are using:

a) C:\Programs\Microsoft Office\

b) C:\Program Files\Microsoft Office\

c) C:\Program Files(X86)\Microsoft Office

3 - launch the application.

4.2 Structure and directories of the system

Once installed, all the system files and data directories and paths are stored under C:\MEVS\ as described below.

Data sent by Local offices (WUAs) have to be stored by Regional Offices in the following path C:\MEVS\Retrieve Local Monitoring Data\ in order to be imported in MONEVA System.

Data sent by Regional Offices have to be stored by National Offices in the following path C:\MEVS\Retrieve Regional Data\ in order to be imported in MONEVA System.

Data prepared by Regional Offices to be sent to National Offices are exported in the following path C:\MEVS\Send to National\

System settings from National Offices are stored in C:\MEVS\SETTINGS\. Regional Offices have to save the setting files received from National in the same path.

Data files saved in the migration/backup procedure are stored in the following path C:\MEVS\MIGRATION\

Please refer to Migration and data export further detailed in this document.

All the documentation files related to the system as well as the PDF forms are stored in the following path C:\MEVS\DOCUMENTATION\

The reports and the tables related to the evaluation procedures are stored in the following paths C:\MEVS\REPORTS\ and C:\MEVS\REPORTS\GRAPHS AND TABLES\

A backup of all the xml files imported by National and Regional levels and related to the evaluation data are stored in the following path C:\MEVS\ORIGINAL DATA STORE\

5. The database interface

Once launched, the database start-up screen is displayed as shown in Fig. 2.

The software interface shows two bars (a horizontal one and a vertical one) which provide access to the functions of MONEVA System that distinguishes between National and Regional level. Please note that all the buttons of the main bar are “ghost” and not clickable until a session is started.

The selection of a specific button on the main horizontal bar determines the buttons to show on the vertical left sidebar, offering various functionalities/features to the user.

For didactics purposes, this guide assumes that the top horizontal bar makes available a series of "functions". Each function includes a variety of "sections" accessible through the appropriate buttons on the vertical bar.To start a new session, click on **"Login"** button. A new window will open (Fig. 3) allowing to perform the following steps:

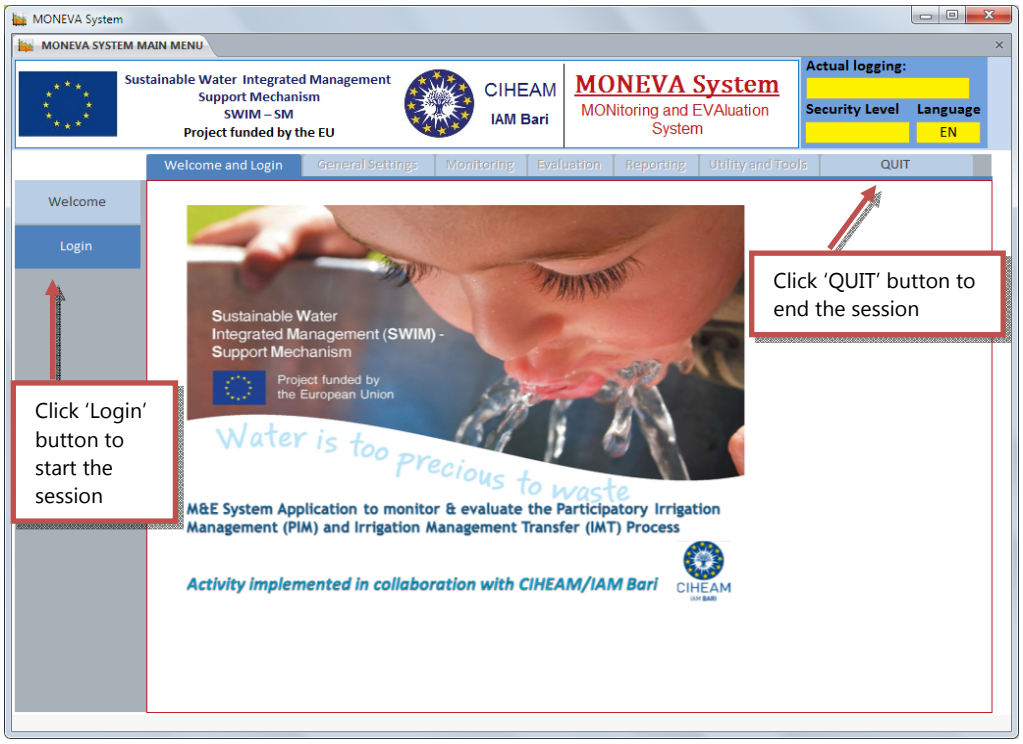


Fig. 3 - Database welcoming start-up screen

1. Select the interface language.
2. Choose the appropriate user profile from the **'Login ID'** combo box.
3. Enter the default associated password in the **'Password'** text field (see Table 2) .
4. Click on **'Login'** button to start the session.

Table 2 – Default Login IDs and Passwords provided by the system

LOGIN ID	PASSWORD
NatAdm	13579
NatUser	24680
RegAdm	abcde
RegUser	fghil

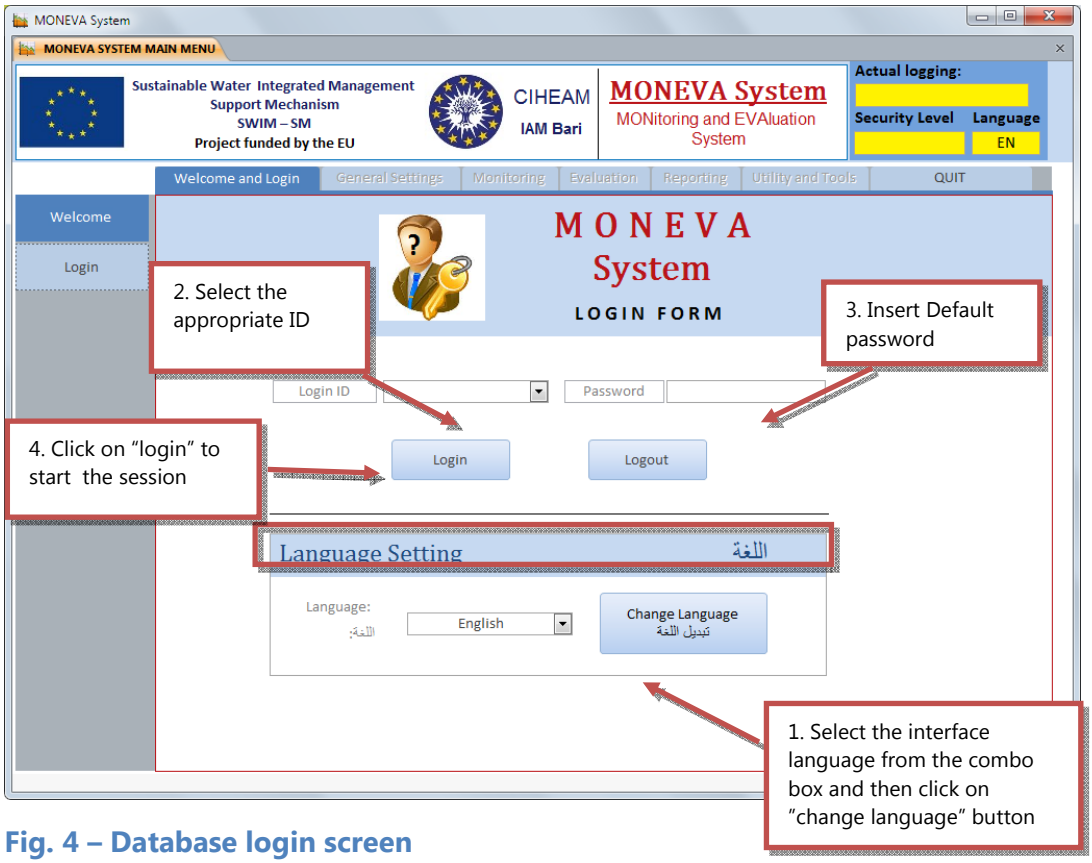


Fig. 4 – Database login screen

Once logged in, a welcome message appears on the screen and the user name, the associated security level and the selected language show on the upper right corner. At this stage, the buttons in the main bar are active and clickable.

6. Applicable indicators and System structure integrity

The National Administrators can select and thus set the indicators applicable to the specific context of their countries by mean of a specific function of MONEVA System (please refer to the Users' Guide for National Offices for insights).

The deactivation of a variable/indicator will hide it from the monitoring forms and consequently it will not be considered for evaluation. This function can also be used by National offices just to suspend the applicability of a variable/indicator in the evaluation stage even though it is still monitored.

6.1 The indicators application status

To set the applicability of indicators/variables, the countries can use a user-friendly interface, "Applicable indicator" under "General settings" function as shown in Fig. 5.

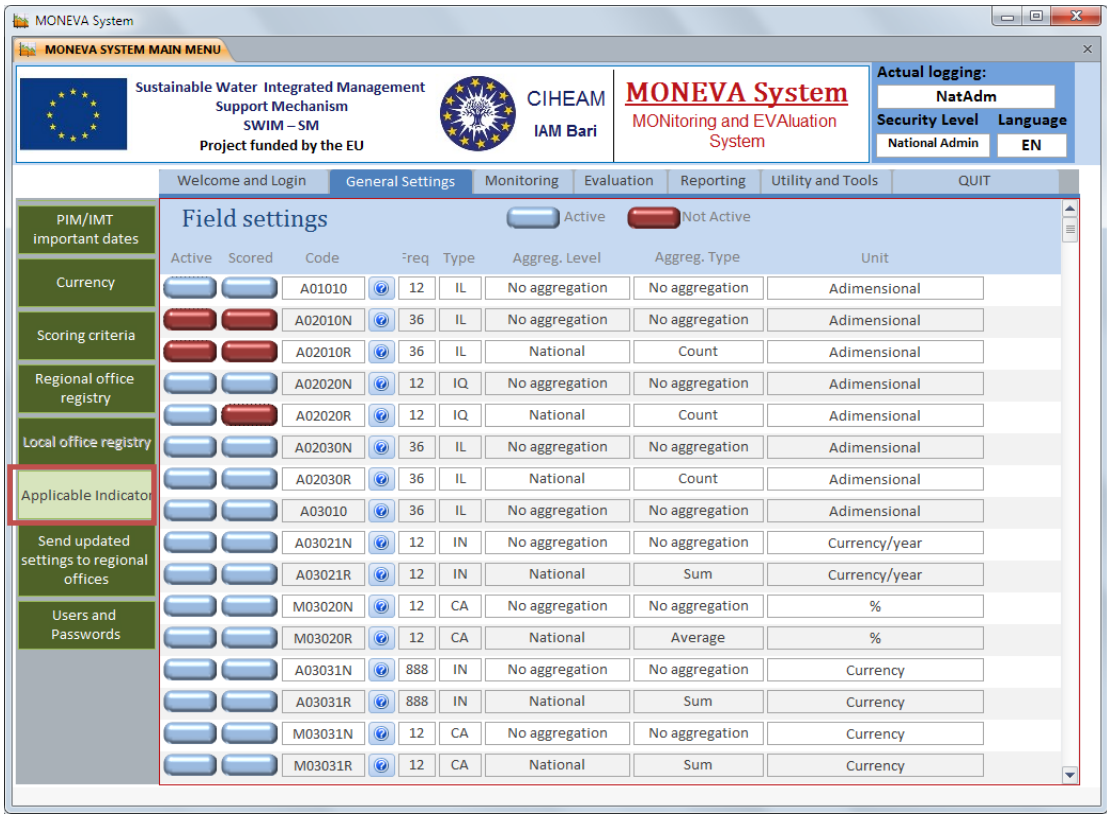


Fig. 5 – 'General Settings' function: Applicable indicators associated section

By acting on the **'Active'** switch every single indicator can be, activated (blue)/deactivated (red) in the monitoring phase and thus considered/not considered for evaluation. By acting on **'Scored'** switch of a variable/indicator (turning it to red), the National administrator chooses to monitor a variable/indicator but not to score/evaluate it, at least for a certain period.

This procedure helps customizing the process to the country context accounting for the different stages of PIM/IMT program, as a variable/indicator may be applicable in a phase and not in another phase and vice versa. This procedure can be repeated every time it is necessary, however the National Administrator has always to generate the settings updated files and distribute them to the Regions (see 5.6).

For every variable/indicator shown in rows, the following is displayed from left to right (Fig. 6):

- The "Active/Scored" switches
- The unique identification "CODE"
- The associated frequency of monitoring "Freq" in months (12 or 36); once at the start of M&E (code 888)
- The "Type" of the variable/indicator: 'IL' for logic, 'IN' for numerical, 'IQ' for qualitative, 'CA' for calculated

- The "Aggregation level": 'Nat' for national, 'Reg' for regional, 'N-R' for national and regional, 'No aggreg' for no aggregation
- The "Aggregation type": 'Sum', 'Count', 'Average' or 'No aggregation'
- The measurement "Unit"

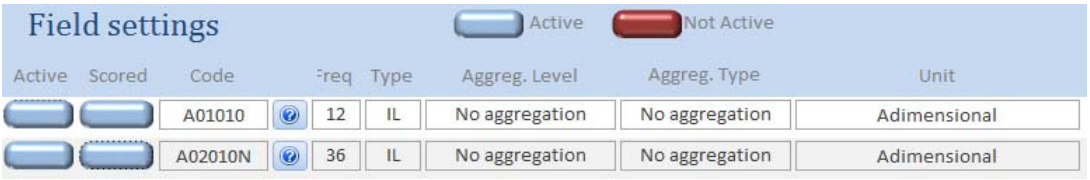


Fig. 6 - 'General Settings' function: Setting applicable indicators

Below are described the three possible combinations of the two switches and the consequences on the monitoring and evaluation processes.

6.1.1 'Active' switched ON, 'Scored' switched ON

The variable/indicator will be monitored and evaluated at the level where it applies: National, Regional or Local.

6.1.2 'Active' switched OFF, 'Scored' switched OFF

The variable/indicator will not be monitored nor evaluated. Consequently, the Maximum Number of Points (MNP) in an output/outcome will be reduced by the number of deactivated indicators multiplied by 2 (maximum score that can be attributed to a variable/indicator).

6.1.3 'Active' switched ON, 'Scored' switched OFF

The indicator will be only monitored, it will not be scored and thus not evaluated at the level where it applies: National, Regional or Local. Consequently, the MNP of an output/outcome will be reduced by the number of deactivated indicators multiplied by 2 (maximum score that can be attributed to a variable/indicator).

Settings are automatically saved into the database when the switches are operated.

6.2 Integrity and validation control

The National Offices are aware about the fact that connected indicators, more specifically parented indicators, are not automatically activated/deactivated by the MONEVA System through the "Applicable indicators" section. Moreover, one indicator can be used to calculate other indicators and an indicator itself can be part of the equation applied to calculate other indicators.

For this reason, the role of the IT manager is to help and assist the National Offices in the control of integrity whenever some changes are applied.

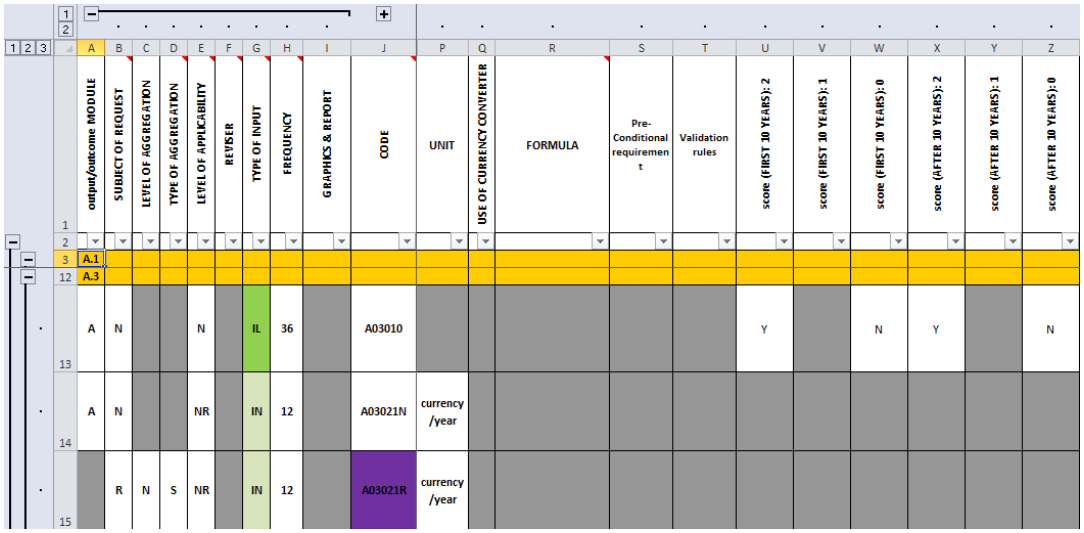
The National Offices shall send to the IT manager the modified database to be checked for integrity.

In order to perform the integrity check and validation, a table is provided in Annex 1. It represents the whole system structure, showing the linkages among Outcomes/Outputs/Indicators/Variables. To help the navigation of such a complex structure, the file Excel named Annex_01_MONEVAS_Structure.xlsx can be used.

6.2.1 System Structure: inter-linkage indicators/variables, outputs and outcomes

Below, a detailed description of the above mentioned table is provided.

Every row reports on a variable/indicator (e.g. A03010, A03021N, A03021R) associated to an Outcome (e.g. A.1, A.2 … B.1 … D.9) (Fig. 7)



	output/outcome MODULE	SUBJECT OF REQUEST	LEVEL OF AGGREGATION	TYPE OF AGGREGATION	LEVEL OF APPLICABILITY	REVISER	TYPE OF INPUT	FREQUENCY	GRAPHICS & REPORT	CODE	UNIT	USE OF CURRENCY CONVERTER	FORMULA	Pre-Conditional requirement	Validation rules	SCORE (FIRST 10 YEARS): 2	SCORE (FIRST 10 YEARS): 1	SCORE (FIRST 10 YEARS): 0	SCORE (AFTER 10 YEARS): 2	SCORE (AFTER 10 YEARS): 1	SCORE (AFTER 10 YEARS): 0
3	A.1																					
12	A.3																					
13	A	N			N		IL	36		A03010						Y		N	Y		N
14	A	N			NR		IN	12		A03021N	currency /year										
15		R	N	S	NR		IN	12		A03021R	currency /year										

Fig. 7 - Structure of the indicators/variables, outputs and outcomes

Column "output/outcome MODULE"

In this column are indicated the affinity modules or the outcomes codes (see Table 1).

Column "SUBJECT OF REQUEST"

In this column is reported the subject responsible for inputting the appropriate monitoring value of a variable/indicator: N stands for National, R for Regional, L for Local, U for Unrequested.

Column "LEVEL OF AGGREGATION"

In many cases a variable/indicator with a Local "Object of Request" is aggregated at Regional and/or National Level and one with a Regional "Object of Request" at National Level. This procedure means that Local Data from Local Offices reach the appropriate Regional Offices to get aggregated and sent to the National Level where they are subjected to further aggregation; while Regional Data can be directly sent from all the Regional Offices to the National/Central level where they get aggregated. N stands for National, R for Regional, NR for National and Regional.

Column "TYPE OF AGGREGATION"

Data can be aggregated under the following forms: S sum, C count, A average.

Column "LEVEL OF APPLICABILITY"

It reports the subjects that have access to a specific info through the reports generated by the system: N stands for National, R for Regional, NR for National and Regional.

Column "TYPE OF INPUT"

The type of indicator is codified as follows:

- IN: Numerical Indicator (inputted by operators)
- IL: Logical Indicator (inputted by operators)
- IQ: Qualitative Indicator (inputted by operators and coded)
- CA: Calculated Indicator
- RE: Retrieved (it is a value already existing in the system and copied from another field)

Column "FREQUENCY"

The update of monitoring data update can take place with the following frequencies: 12 months, 36 months, 888 "once at the beginning of PIM/IMT program", 999 "once at the end of PIM/IMT program.

The frequency encoded "888" refers to values representing cumulative figures up to a Reference year Ry and entered only once in a lifetime i.e. the first time the M&E is in use.

The frequencies 12 and 36 months refer to monitoring values to be updated once a year or once every 3 years.

The frequency encoded "999" refers to indicators calculated only at the end of PIM/IMT program.

These dates are defined or calculated as part of the initial settings of the system performed at National Level as specified under "National Offices workflow". (For more details please refer to Users' guide for National/Central Office section 5.1)

Column "GRAPHICS & REPORT"

It defines if any, the graph and/or report to generate for a specific variable/ indicator. The relative codification is assigned with letter G (e.g. GA0301, GB0101).

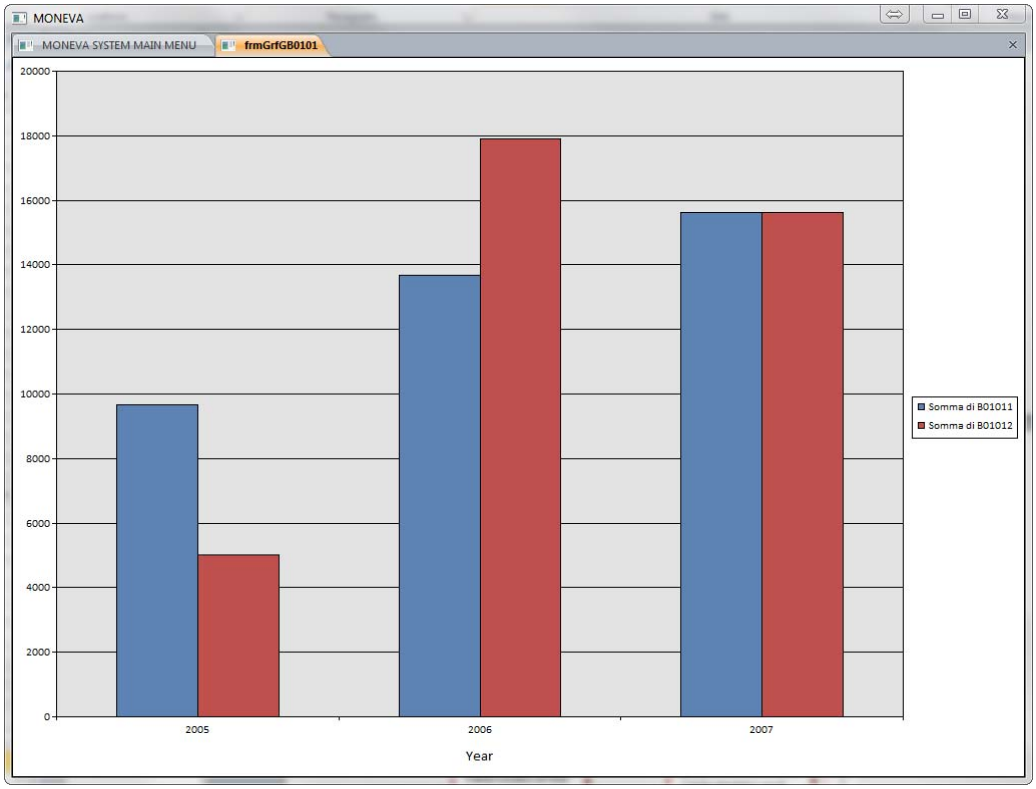


Fig. 8 – Example of a graph

Column "CODE"

Every indicator is identified by a specific code, in which the first letter refers to a module, and then reports the affinity outcome (number) and output (number) and could be inputted or calculated. Please refer to Table 1 – Codification of variables and indicators: Affinity with M&E modules for explanation.

Column "UNIT"

It is the measurement unit of the indicator/variable, where applicable.

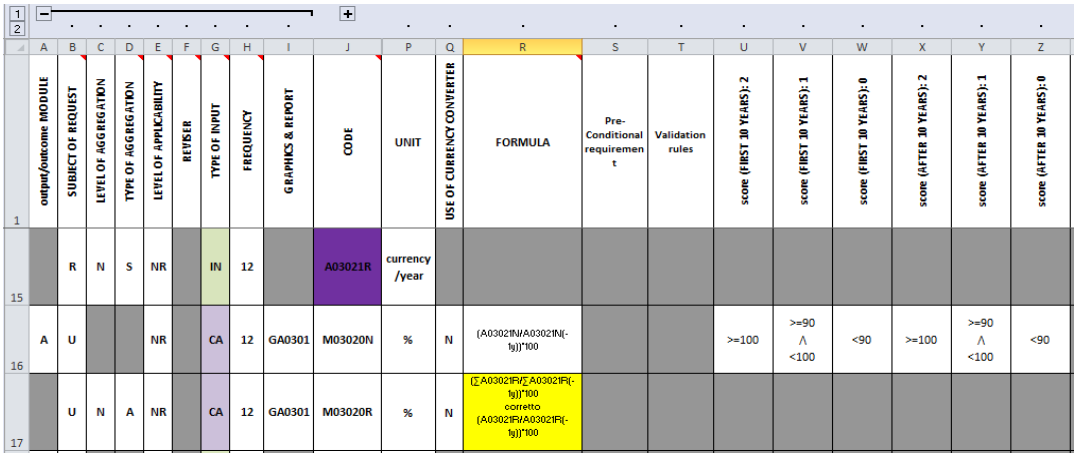
Column "USE OF CURRENCY CONVERTER"

The default scoring criteria generally report on the International experience; thus, where it applies values in USD are used. In order to give enough flexibility to the system to be customizable according to Local Experiences, a currency converter was

embedded. This column indicates if a currency converter was used (Y) or not (N) for a specific variable/indicator.

Column "FORMULA"

In this column, are stored the formulas applied to obtain the values of the calculated indicators (M, N, P, T) (see Fig. 9).



	A	B	C	D	E	F	G	H	I	J	P	Q	R	S	T	U	V	W	X	Y	Z
1	output/outcome MODULE	SUBJECT OF REQUEST	LEVEL OF AGGREGATION	TYPE OF AGGREGATION	LEVEL OF APPLICABILITY	REVISER	TYPE OF INPUT	FREQUENCY	GRAPHICS & REPORT	CODE	UNIT	USE OF CURRENCY CONVERTER	FORMULA	Pre-Conditional requiremen t	Validation rules	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
15		R	N	S	NR		IN	12		A03021R	currency /year										
16	A	U			NR		CA	12	GA0301	M03020N	%	N	(A03021N/A03021N(-1g))*100			>=100	>=90 ∧ <100	<90	>=100	>=90 ∧ <100	<90
17		U	N	A	NR		CA	12	GA0301	M03020R	%	N	(∑A03021R/∑A03021R(-1g))*100 corretto (A03021R/A03021R(-1g))*100								

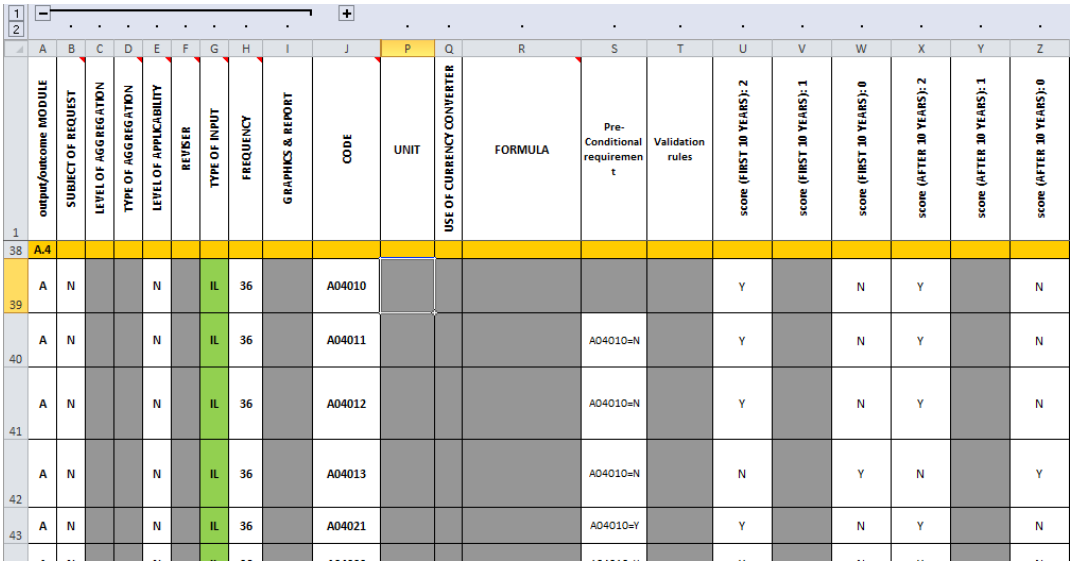
Fig. 9 - Formulas of calculated indicators

Column "Pre-Conditional requirement"

The applicability of some indicators depend on pre-conditions.

For example, Fig. 10 shows the case of the Logical Indicator A04010.

Answering with "YES" to this indicator activates indicator A04021. Answering with "NO" activates indicators A04011, A04012 and A041013.



	A	B	C	D	E	F	G	H	I	J	P	Q	R	S	T	U	V	W	X	Y	Z
1	output/outcome MODULE	SUBJECT OF REQUEST	LEVEL OF AGGREGATION	TYPE OF AGGREGATION	LEVEL OF APPLICABILITY	REVISER	TYPE OF INPUT	FREQUENCY	GRAPHICS & REPORT	CODE	UNIT	USE OF CURRENCY CONVERTER	FORMULA	Pre-Conditional requiremen t	Validation rules	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
38	A.4																				
39	A	N			N		IL	36		A04010						Y		N	Y		N
40	A	N			N		IL	36		A04011				A04010=N		Y		N	Y		N
41	A	N			N		IL	36		A04012				A04010=N		Y		N	Y		N
42	A	N			N		IL	36		A04013				A04010=N		N		Y	N		Y
43	A	N			N		IL	36		A04021				A04010=Y		Y		N	Y		N

Fig. 10 - Preconditional requirements for the applicability of some indicators

Respecting these conditions is essential to perform the integrity and validation process on the applicable indicators setup by National Offices.

Taking into account the above example, an IT manager has to make sure that when A04010 indicator is set as not active (refer to 6.1.2 'Active' switched OFF, 'Scored' switched OFF) then all the related indicators, both if the value is Y or N, have to be set as not active.

Column "Validation rules"

In this column are stored some simple rules to define the ranges of validity of some indicators (Fig. 11).

	A	B	C	D	E	F	G	H	I	J	P	Q	R	S	T	U	V	W	X	Y	Z
1	output/outcome MODULE	SUBJECT OF REQUEST	LEVEL OF AGGREGATION	TYPE OF AGGREGATION	LEVEL OF APPLICABILITY	REVISER	TYPE OF INPUT	FREQUENCY	GRAPHICS & REPORT	CODE	UNIT	USE OF CURRENCY CONVERTER	FORMULA	Pre-Conditional requiremen t	Validation rules	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
230	C	L					IN	12		C03081	Ha										
231	C	U	NR	A		R	CA	12		P03081	adimensional	N	C0308\C03071			>=2.5	>=2.5 ∧ <1.5	<1.5	>=2.5	>=2.5 ∧ <1.5	<1.5
232	C	L	NR	S			IN	12		C03091	Ha			C03022>0	C03091<=C 03024						
233	C	U	NR	A		R	CA	12		P03091	%	N	C03091\C03024*100		C03101<=1 00						
234	C	L	NR	S		R	IN	12		C03101	Ha			C03023>0	C03101<=C 03024						
235	C	U	NR	A		R	CA	12		P03101	%	N	C0310\C03024*100		P03101<=1 00						
236	C	L	NR	S		R	IN	12		C03102	Ha				C03102<=C 03024						
237	C	U	NR	A		R	CA	12		P03102	%	N	C03102/C03024*100		P03102<=1 00						

Fig. 11 - Validation rules of indicators

Columns "Score"

In the 6 columns entitled "Score" are stored the scoring criteria according to which a certain number of points are assigned to the indicators.(applicable scoring values are 0, 1 and 2). The system can differentiate between 2 different M&E periods and thus apply two different scoring criteria for each single variable/indicator in a first and a second M&E period, defined under the section "PIM/IMT Important dates" of Utility and Tools at National Level (see example of P03081 indicator in Fig. 11).

Columns for the definition of indicators, outputs and outcomes

- Extended definition – Definition of the indicator in the input/monitoring form.
- Short definition - Definition of the indicator in the report/evaluation.
- OUTPUT – The description of the output to which the indicator is related.
- OUTCOME - The description of the outcome to which the indicator and output are related.

7. Migration and data export

The feature "Migration and data export tool" within function "Utility and Tools" of the MONEVA System allows to import and export all the data and settings. This function is intended for backup and security (export) as well as for migration purposes, allowing the use of a new release of the software preserving the data and the settings of the system (Fig. 1212).

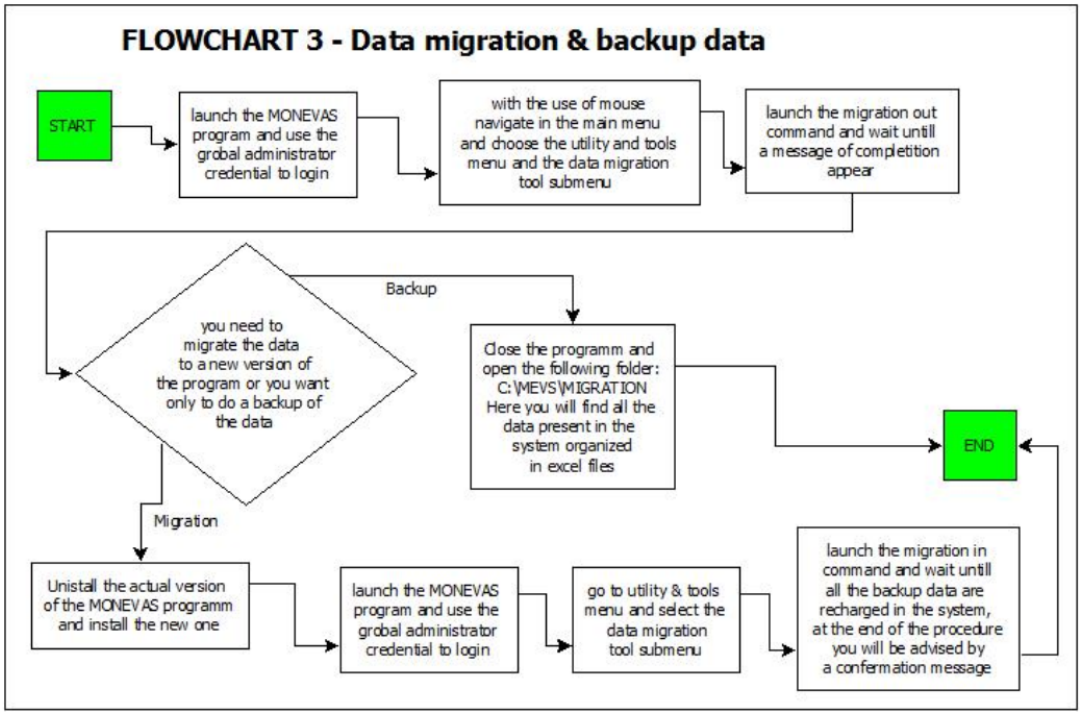


Fig. 12 - Flowchart explaining data migration and backup

The export and import procedure refers to all the files contained in the system folder C:\MEVS\MIGRATION that is created during the installation procedure.

Fig. 13 - Migration data tool

When clicking on 'Migrate data OUT' button (Fig. 13), the export procedure starts, creating a series of Excel files in the above mentioned folder (Fig. 14). These Excel files are a backup of the xml files saved on the folder described in chapter 4.2 Structure and directories of the system.

These files have the following names and report the following data:

- 01_NAT_frequency.xlsx for National data.
- 01_NAT_LOC_frequency.xlsx for local data aggregated at National level.
- 02_REG_frequency-xlsx for Regional data.
- 03_LOC_frequency.xlsx for Local data.
- tblCropType.xlsx for the list of the crops stored in the System.
- tblScore.xls for the indicators/variables score settings.
- Z_ANCRDA.xlsx for the Regional Office registry.
- Z_ANWUA.xlsx for the Local Offices (WUAs) registry.
- X_CURRENCY.xlsx for the exchange rates of currencies.
- Z_DEF.xlsx for the applicable indicators settings.
- Z_TIMING.xlsx for the project timing settings.
- Z_USERS.xlsx for the users and passwords stored in the System.

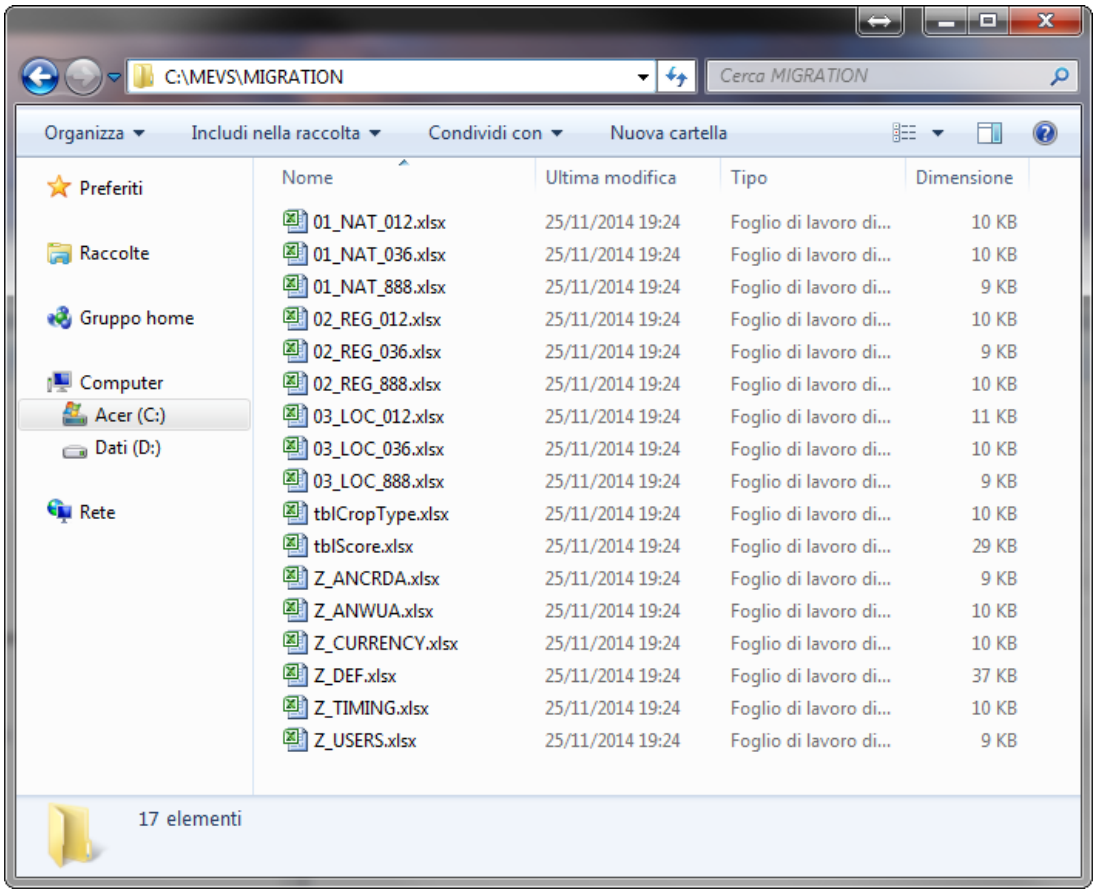


Fig. 14 - Exported data and settings files

The backup should be performed by Regional and Central Offices, every time an update of the settings has been carried out and yearly at the end of a Monitoring and Evaluation year by, zipping and saving in a safe place the content of the entire C:\MEVS\MIGRATION folder.

To import into the system the previously saved data and settings, the first step to accomplish is to place all the backup files into path C:\MEVS\MIGRATION, eventually deleting the old existing ones, and to subsequently click on 'Migrate data IN' button. A warning message will display reminding you that the import process will overwrite all data and settings currently present in the system.

This procedure is useful to restore data and settings when a new release of MONEVA System shall be used.

8. PDF management and customization

As mentioned before, simple PDF modules consisting of fields that allow for a pre–guided compilation are used to perform monitoring at local level by the WUAs.

Different types of PDF modules are prepared as listed hereafter, they are available both in English and Arabic:

1. Local office – Detailed info module
2. Local office – Monitoring module, once at the start frequency
3. Local office – Monitoring module, 12 months frequency
4. Local office – Monitoring module, 36 months frequency
5. Modification request of Monitoring Data
6. Comments on Evaluation

All the PDF forms are available under "PDF doc archive" section of the MONEVA System. To open a specific form, double click the corresponding icon (Fig. 15).

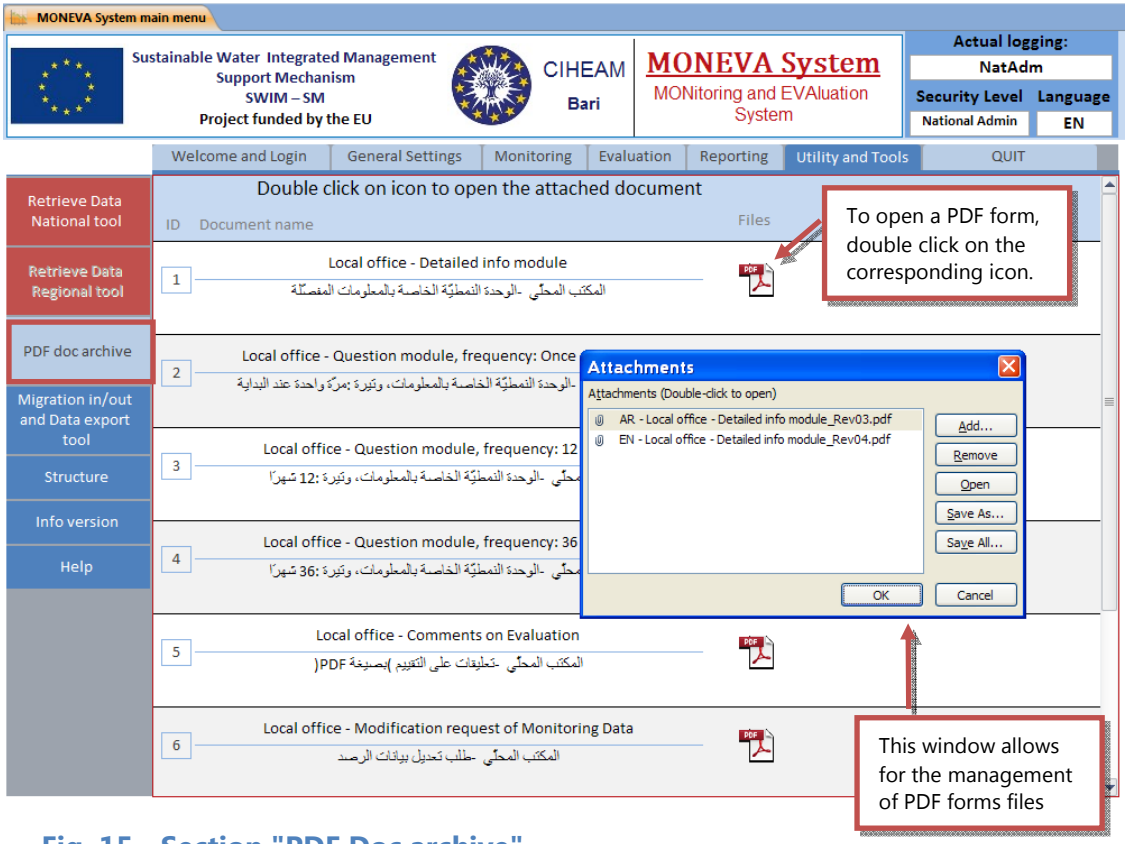


Fig. 15 - Section "PDF Doc archive"

Any PDF form can be customized if needed. Actually, at the end of each module a field named "Insert customization password" is available (Fig. 16). Once this field is filled in with the appropriate password, (available at the National Level), all fields are made customizable. Checking any field will disable it in the PDF module (Fig. 17). This Feature allows for a flexible, adaptable system to the specific conditions of a Country. It is actually the analogue of the section "Applicable Indicator" of the database.

However, the customization of PDF module "Local office – Monitoring module once at the start frequency" is mandatory, and does not require any password. It shall take place when PIM/IMT dates are defined, by inputting Ry, saving the customized form and distributing it to the Local Offices.

The customized PDF file can be saved only if Acrobat Professional is available on your computer.

It is the duty of the National/Central Level to re-distribute to the Regional Offices any customised PDF module. The Regional Office on its turn, has the duty to provide the Local offices with the customised modules. This procedure allows to perform a coherent and standardised M&E starting form the local and going up to the National level.

For detailed information about the Local M&E, please refer to "Local Office: Working with PDF Forms" Users' guide.

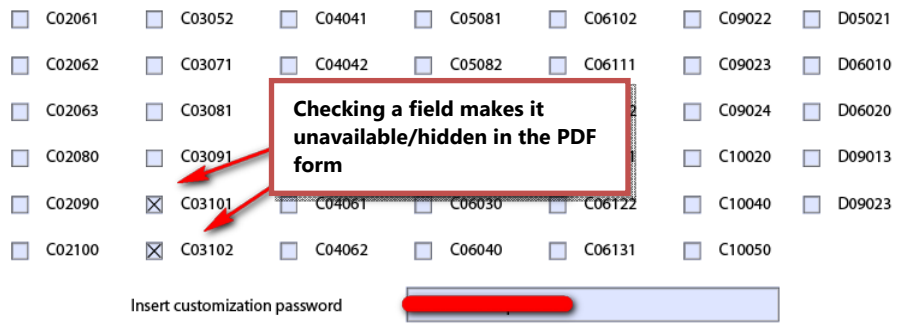


Fig. 16 – Customization of PDF files. Checking (making unavailable) fields C03101 and C03102

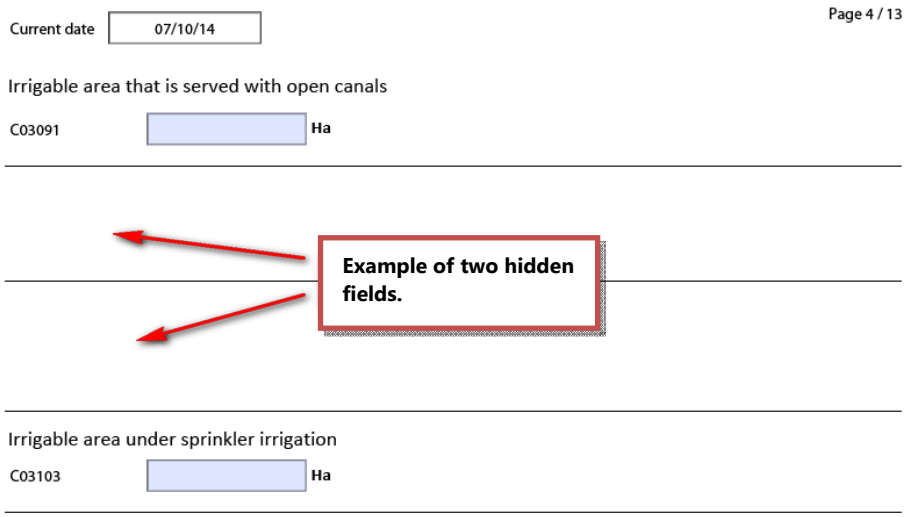


Fig. 17 – Fields C03101 and C030102 are hidden in the PDF form after customization

8.1 Structural customization of PDF

If the National Office needs to go beyond the simple customization of standard indicators/variables and for instance add a new set of indicators/variables, or change the definition and units of existing ones, or even change the validation rules, the PDF modules have to be radically rebuilt.

To perform such customization another software package called Adobe LiveCycle Designer should be used.. For more information please refer to the following link http://www.adobe.com/mena_en/products/server/adobedesigner/

9. Access rights

Based on their roles, the users of MONEVA System are assigned specific access rights to the database functions. The system differentiate among three categories of functions:

1. Viewing, navigation and editing
2. Viewing and navigation
3. No access

Table 3 details the security access rules to each form of MONEVA System.

Table 3 – Security Access Rules for MONEVA System database

Caption Main Form	Caption SubForm 1	Caption SubForm 2	Security level			
			NA	NU	RA	RU
Welcome and Login			2	2	2	2
	MASK_LogoComplete		2	2	2	2
	Welcome		2	2	2	2
	Login		2	2	2	2
		frmLanguageSet	2	2	2	2
General Settings			2	2	2	2
	PIM/IMT important dates		1	2	2	2
	Currency		1	2	2	2
	Scoring criteria		1	2	2	2
	Regional office registry		1	2	1	2
	Local office registry		3	3	1	2
	Applicable Indicator		1	2	2	2
	Send updated settings to regional offices		1	3	3	3
	Users and Passwords		1	3	1	3
		frmsubZ_USERS	2	3	2	3
Monitoring			2	2	2	2
	National (once at M&E start; cumulative up to Ry)		1	2	3	3
	National (12 months step starting Ry)		1	2	3	3
	National (36 months step starting Ry)		1	2	3	3
	Regional (once at M&E start; cumulative up to Ry)		3	3	1	2
	Regional (12 months step starting Ry)		3	3	1	2
	Regional (36 months step starting Ry)		3	3	1	2
		frmHelpBox	2	2	2	2
Evaluation			2	2	2	2
	National Evaluation per OUTCOME (12/36 months steps)		1	1	3	3
		A1	1	1	3	3
		A2	1	1	3	3

		A3	1	1	3	3
		A4	1	1	3	3
		A5	1	1	3	3
		B1n	1	1	3	3
		B2n	1	1	3	3
		B3n	1	1	3	3
		B4n	1	1	3	3
		B5n	1	1	3	3
		B6n	1	1	3	3
		B7n	1	1	3	3
		B8n	1	1	3	3
		B9n	1	1	3	3
	National Evaluation per OUTCOME (once at the end of PIM/IMT life)		1	1	3	3
		A5	1	1	3	3
		B3n	1	1	3	3
		B4n	1	1	3	3
		B5n	1	1	3	3
		B9n	1	1	3	3
	Regional Evaluation per OUTCOME (12/36 months steps)		3	3	1	1
		B1r	3	3	1	1
		B2r	3	3	1	1
		B3r	3	3	1	1
		B4r	3	3	1	1
		B5r	3	3	1	1
		B6r	3	3	1	1
		B7r	3	3	1	1
		B8r	3	3	1	1
		B9r	3	3	1	1
		C1	3	3	1	1
		C2	3	3	1	1
		C3	3	3	1	1
		C4	3	3	1	1
		C5	3	3	1	1
		C6	3	3	1	1
		C7	3	3	1	1
		C8	3	3	1	1
		C9	3	3	1	1
		C10	3	3	1	1
		D1	3	3	1	1
		D2	3	3	1	1

		D3	3	3	1	1
		D4	3	3	1	1
		D5	3	3	1	1
		D6	3	3	1	1
	Regional Evaluation per OUTCOME (once at the end of PIM/IMT life)		3	3	1	1
		B4r	3	3	1	1
		B5r	3	3	1	1
		B9r	3	3	1	1
		D7	3	3	1	1
		D8	3	3	1	1
		D9	3	3	1	1
Reporting			2	2	2	2
	Indicators' graphics		2	2	2	2
	Monitoring data exporting PDF or XLS		1	3	1	3
	Statistical calculation on aggregated data		2	2	2	2
		frmStatLogic	1	1	3	3
		frmStatLogicLocal	3	3	1	1
		frmStatNumerSum012	1	1	3	3
		frmStatNumerSum012L1	3	3	1	1
		frmStatNumerSum012L2	3	3	1	1
		frmStatNumerSum012L3	3	3	1	1
		frmStatNumerSum012L4	3	3	1	1
		frmStatNumerSum036L	3	3	1	1
		frmStatNumerSum888	1	1	3	3
		frmStatNumerSum888L	3	3	1	1
		frmStatNumerSumLL	1	1	3	3
		frmStatNumerSumLL036	1	1	3	3
		frmStatNumerSumLN012L1	1	1	3	3
		frmStatNumerSumLN012L2	1	1	3	3
		frmStatNumerSumLN012L3	1	1	3	3
		frmStatNumerSumLN036	1	1	3	3
		frmStatNumerSumLN888	1	1	3	3
Utility and Tools			2	2	2	2
	Retrieve Data National tool		1	3	3	3
		frmCheckImportZ_ANCRDA	1	3	3	3
	Retrieve Data Regional tool		3	3	1	3
		frmSendRegMD	3	3	1	3
		frmSendRegALMD	3	3	1	3

		frmCheckImportLocCM	3	3	1	3
		frmCheckImportLocDI	3	3	1	3
		frmCheckImportLoc12	3	3	1	3
		frmCheckImportLoc36	3	3	1	3
		frmCheckImportLoc888	3	3	1	3
	PDF doc archive		2	2	2	2
	Migration and Data export tool		1	3	1	3
	Structure		2	2	2	2
	Info version		2	2	2	2
		frmVerLOG	2	2	2	2
	Help		2	2	2	2
Quit			2	2	2	2

Notes

NA = National Administration

NU = National User

RA = Regional Administrator

RU = Regional User

Security levels

1 - View, navigate and edit

2 - View, navigate

3 - No access

	A	B	C	D	E	F	G	H	I	J	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
2	output/outcome MODULE	SUBJECT OF REQUEST	LEVEL OF AGGREGATION	TYPE OF AGGREGATION	LEVEL OF APPLICABILITY	REVISER	TYPE OF INPUT	FREQUENCY	GRAPHICS & REPORT	CODE	UNIT	USE OF CURRENCY CONVERTER	FORMULA	Pre-Conditional requirement	Validation rules	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0	IQ CODED VALUE	Extended definition	Short definition (report)	OUTPUT (report)	OUTCOME (report)
3																										
4	A.1																									
5	A	N			N		IL	12		A01010						Y		N	Y		N		Existence of a government statement declaring the PIM/IMT program a national priority. "A government statement about PIM/IMT is a formal document where the objectives and justification of the programme are described but also other information regarding the scope and the policies to be implemented"	Existence of a government statement declaring the PIM/IMT program a national priority	A government statement declaring the PIM/IMT program a national priority is available	The implementation of the PIM/IMT program is supported politically
6	A.2																									
7	A	N			NR		IL	36		A02010N						Y		N	Y		N		A coordination mechanism has been established "A Coordination Mechanism refers to any institutional set up i.e. steering committee , working group, special commission, task force, etc., where the concerned governmental stakeholders share information and propose actions regarding the PIM/IMT process. The steering committee may consist of for example the Irrigation agency, the Ministry of Finance, the implicated Donors if needed, and the Cooperative Ministry, or any Ministry responsible for registering the WUA, etc."	A coordination mechanism has been established	A coordination mechanism is in place and is effective	The PIM/IMT program has been institutionalized for the planning and implementation phases
8		R	N	C	NR		IL	36		A02010R													A coordination mechanism has been established "A Coordination Mechanism refers to any institutional set up i.e. steering committee , working group, special commission, task force, etc., where the concerned governmental stakeholders share information and propose actions regarding the PIM/IMT process. The steering committee may consist of for example the Irrigation agency, the Ministry of Finance, the implicated Donors if needed, and the Cooperative Ministry, or any Ministry responsible for registering the WUA, etc."	A coordination mechanism has been established		
9	A	N			NR		IQ	12		A02020N						2	1	0	2	1	0	coordination effectiveness is: (2) satisfactory (1) medium (0) not at all.	Degree of effectiveness of coordination among the institutions participating in PIM/IMT program. "Coordination is effective when all participating institutions carry out their responsibilities as agreed in the Coordination Mechanism."	Degree of effectiveness of coordination among the institutions participating in PIM/IMT program		
10		R	N	C	NR		IQ	12		A02020R												coordination effectiveness is: (2) satisfactory (1) medium (0) not at all.	Degree of effectiveness of coordination among the institutions participating in PIM/IMT program at the regional level. "Coordination is effective when all participating institutions carry out their responsibilities as agreed in the Coordination Mechanism."	Degree of effectiveness of coordination among the institutions participating in PIM/IMT program at the regional level.		
11	A	N			NR		IL	36		A02030N						Y		N	Y		N		Roles and responsibilities of the actors involved are clearly defined with respect to PIM/IMT. "Clear roles and responsibilities of the actors refer to clear documentation of the roles and responsibilities of all the members of the Coordination Mechanisms who also know their responsibilities and actions to be taken"	Roles and responsibilities of the actors involved are clearly defined with respect to PIM/IMT		
12		R	N	C	NR		IL	36		A02030R													Roles and responsibilities of the actors involved are clearly defined with respect to PIM/IMT. "Clear roles and responsibilities of the actors refer to clear documentation of the roles and responsibilities of all the members of the Coordination Mechanisms who also know their responsibilities and actions to be taken"	Roles and responsibilities of the actors involved are clearly defined with respect to PIM/IMT		
13	A.3																									
14	A	N			N		IL	36		A03010						Y		N	Y		N		A national PIM/IMT plan with financial and human resources is allocated. "A national PIM/IMT plan is a planning document covering a period of several years (normally 5-10) including: objectives and justification, organizational structure for the implementation of the program, stakeholders participation, key issues to be resolved, time frame and needed financial and human resources."	A national PIM/IMT plan with financial and human resources is allocated		
15	A	N			NR		IN	12		A03021N	currency/year												Annual amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT during last year. This represents the amount of money allocated for the government personnel dedicated for the pim/imt, transport, equipt (PCs, tel. fax, etc..). It does not Include the financial allocation for rehabilitation and improvement.	Annual amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT during last year		
16		R	N	S	NR		IN	12		A03021R	currency/year												Annual amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT during last year. This represents the amount of money allocated for the government personnel dedicated for the pim/imt, transport, equipt (PCs, tel. fax, etc..). It does not Include the financial allocation for rehabilitation and improvement.	Annual amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT during last year		
17	A	U			NR		CA	12	GA0301	M03020N	%	N	(A03021N/A03021N(-1y))*100			>=100	>=90 ∧ <100	<90	>=100	>=90 ∧ <100	<90		Percentage of the annual budget allocated by the irrigation agency for the PIM/IMT programme last year with respect to the budget of two years ago	Percentage of the annual budget allocated to the irrigation agency for the PIM/IMT programme with respect to the budget two years ago		
18		U	N	A	NR		CA	12	GA0301	M03020R	%	N	(A03021R/A03021R(-1y))*100										Percentage of the annual budget allocated by the irrigation agency for the PIM/IMT programme last year with respect to the budget of two years ago	Percentage of the annual budget allocated to the irrigation agency for the PIM/IMT programme with respect to the budget two years ago		
19	A	N			NR		IN	888		A03031N	currency												Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to a Reference Year (RY) This represents the amount of money allocated for the government personnel dedicated for the PIM/IMT, transport, equipment (PCs, tel. fax, etc..). up to the reference year. It does not Include the financial allocation for rehabilitation and improvement. This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note: this data is entered once at the beginning (when data entry for the first year takes place)	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to a Reference Year (RY)		

	A	B	C	D	E	F	G	H	I	J	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
2	output/outcome MODULE	SUBJECT OF REQUEST	LEVEL OF AGGREGATION	TYPE OF AGGREGATION	LEVEL OF APPLICABILITY	REVISER	TYPE OF INPUT	FREQUENCY	GRAPHICS & REPORT	CODE	UNIT	USE OF CURRENCY CONVERTER	FORMULA	Pre-Conditional requirement	Validation rules	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): -1	score (AFTER 10 YEARS): 0	IQ CODED VALUE	Extended definition	Short definition (report)	OUTPUT (report)	OUTCOME (report)
20		R	N	S	NR		IN	888		A03031R	currency												Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to a Reference Year (RY) This represents the amount of money allocated for the government personnel dedicated for the PIM/IMT, transport, equipment (PCs, tel. fax, etc..). up to the reference year. It does not Include the financial allocation for rehabilitation and improvement. This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note: this data is entered once at the beginning (when data entry for the first year takes place)	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to a Reference Year (RY)	A national PIM/IMT Plan with adeguate financial and human resources allocated is available	
21	A	U			NR		CA	12		M03031N	currency	N	A03031N+A03021N										Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to last year.	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to last year.		
22		U	N	S	NR		CA	12		M03031R	currency	N	A03031R+A03021R										Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to last year.	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to last year.		
23	A	U			NR		CA	12		M03032N	$/Ha	Y	M03031N/∑B01021			>=500	>=200 ∧ <=500	<200	>=500	>=200 ∧ <=500	<200		Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total irrigable area tranferred (up to last year).	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total area tranferred (also up to last year).		
24		U	N	A	NR		CA	12		M03032R	$/Ha	Y	M03031R/∑B01021										Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total irrigable area tranferred (also up to last year).	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total area tranferred (also up to last year).		
25	A	U			NR		CA	12		M03033N	DTN/Ha	N	M03031N/∑B01021			>=75 ∧ <=125	>=40 ∧ <75	<40 ∧ >125	>=75 ∧ <=125	>=40 ∧ <75	<40 ∧ >125		Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total area tranferred (also up to last year).	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total area tranferred (also up to last year).		The PIM/IMT program is supported with a national PIM/IMT Plan which is operational
26		U	N	A	NR		CA	12		M03033R	DTN/Ha	N	M03031R/B01021										Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total area tranferred (also up to last year).	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total area tranferred (also up to last year).		
27	A	N			NR		IN	12		A03041N	no. of people												Number of government officers who worked full time for the PIM/IMT programme last year. Normally this number coincides with the number of those working in the Support Units. "A Support Unit is a generic denomination for the staff that work in the Irrigation agency and are fully dedicated to support the PIM/IMT program". If officers were working less than full time, estimate the total number of days/month they worked and divide it by 220/10 working days/month to get the no. of people who worked full time. If there is a fraction, round it according to the rounding rules.	Number of government officers who worked full time for the PIM/IMT programme last year.		
28		R	N	S	NR		IN	12		A03041R	no. of people												Number of government officers who worked full time for the PIM/IMT programme last year. Normally this number coincides with the number of those working in the Support Units. "A Support Unit is a generic denomination for the staff that work in the Irrigation agency and are fully dedicated to support the PIM/IMT program". If officers were working less than full time, estimate the total number of days/month they worked and divide it by 220/10 working days/month to get the no. of people who worked full time. If there is a fraction, round it according to the rounding rules.	Number of government officers who worked full time for the PIM/IMT programme last year.		
29	A	U			NR		CA	12	GA0302	M03040N	%	N	(A03041N/A03041N(-1y))*100			>=100	>=90 ∧ <100	<90	>=100	>=90 ∧ <100	<90		Percentage of the total human resources allocated in the headquarter of the irrigation agency to the PIM/IMT programme last year with respect to two years ago.	Percentage of the total human resources allocated by the irrigation agency to the PIM/IMT programme in last year with respect to two years ago		
30		U	N	A	NR		CA	12	GA0302	M03040R	%	N	(∑A03041R/∑A03041R(-1y))*100										Percentage of the total human resources allocated in the regional office of the irrigation agency to the PIM/IMT programme last year with respect to two years ago.	Percentage of the total human resources allocated by the irrigation agency to the PIM/IMT programme in last year with respect to two years ago		
31	A	N			NR		IN	12		A03051N	currency/year												Annual financial allocation for the rehabilitation and/or improvement of the irrigation systems to be handed over to WUAS and refers to last year data	Annual financial allocation for the rehabilitation and/or improvement of the irrigation systems to be handed over to WUAS and refers to last year data		
32		R	N	S	NR		IN	12		A03051R	currency/year												Annual financial allocation for the rehabilitation and/or improvement of the irrigation systems to be handed over to WUAS and refers to last year data	Annual financial allocation for the rehabilitation and/or improvement of the irrigation systems to be handed over to WUAS and refers to last year data		
33	A	U			NR		CA	12	GA0303	M03050N	%	N	(A03051N/A03051N(-1y))*100			>=100	>=90 ∧ <100	<90	>=100	>=90 ∧ <100	<90		Percentage of the annual financial allocation for the rehabilitation or improvement of transferred irrigation systems last year with respect to 2 years ago	Percentage of the annual financial allocation for the rehabilitation or improvement of transferred irrigation systems last year with respect to 2 years ago		
34		U	N	A	NR		CA	12	GA0303	M03050R	%	N	(∑A03051R/∑A03051R(-1y))*100										Percentage of the annual financial allocation for the rehabilitation or improvement of transferred irrigation systems last year with respect to 2 years ago	Percentage of the annual financial allocation for the rehabilitation or improvement of transferred irrigation systems last year with respect to 2 years ago		

	A	B	C	D	E	F	G	H	I	J	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
2	output/outcome MODULE	SUBJECT OF REQUEST	LEVEL OF AGGREGATION	TYPE OF AGGREGATION	LEVEL OF APPLICABILITY	REVISER	TYPE OF INPUT	FREQUENCY	GRAPHICS & REPORT	CODE	UNIT	USE OF CURRENCY CONVERTER	FORMULA	Pre-Conditional requirement	Validation rules	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0	IQ CODED VALUE	Extended definition	Short definition (report)	OUTPUT (report)	OUTCOME (report)
35	A	R	N	S	NR		IN	888		A03061	currency												Cumulative financial allocations for the rehabilitation and/or improvement of the irrigation systems to be transferred up to the Reference Year (RY) This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note: this data is entered once at the beginning (when data entry for the first year takes place)	Cumulative financial allocations for the rehabilitation and/or improvement of the irrigation systems to be transferred up to the Reference Year	An annual budget for rehabilitation is available	
36	A	U	N	S	NR		CA	12		M03062	currency	N	(A03061+A03051R)										Cumulative financial allocation for the rehabilitation and/or improvement of the irrigation systems handed over to WUAS up to last year.	Cumulative financial allocation for the rehabilitation and/or improvement of the irrigation systems handed over to WUAS up to last year.		
37	A	U	N	A	NR		CA	12		M03063	$/Ha	Y	(M03062*1000/B01021)			>=1000	<1000 ∧ >=500	<500	>=1000	<1000 ∧ >=500	<500		Cumulative financial allocations for the rehabilitation and/or improvement of the irrigation systems per 1000 hectares of irrigable area transferred up to last year.	Cumulative financial allocations for the rehabilitation and/or improvement of the irrigation systems per 1000 hectares of irrigable area transferred up to last year.		
38	A	U	N	A	NR		CA	12		M03064	DTN/Ha	N	(M03062*1000/B01021)			>=5000000	<5000000 ∧ >=3000000	<3000000	>=5000000	<5000000 ∧ >=3000000	<3000000		Cumulative financial allocations for the rehabilitation and/or improvement of the irrigation systems per 1000 hectares of irrigable area transferred up to last year.	Cumulative financial allocations for the rehabilitation and/or improvement of the irrigation systems per 1000 hectares of irrigable area transferred up to last year.		
39	A.4																									
40	A	N			N		IL	36		A04010						Y		N	Y		N		The legal framework was assessed/revised during the implementation period to ensure its suitability for the legal establishment of the WUAs	Existing legal framework assesed for suitabilty versus WUAs establishement	A legal framework for WUAs is formulated or revised and in use	The government is effectively regulating WUAs establishment and functioning and the implementation and management of the PIM/IMT programme
41	A	N			N		IL	36		A04011				A04010=N		Y		N	Y		N		The existing water legislation is considered sufficient for the establishment and effective functioning of the WUA. "This refers to the legislations regulating the water resources use and management".	The existing water legislation is considered sufficient/ insufficient for the establishment and effective functioning of the WUA		
42	A	N			N		IL	36		A04012				A04010=N		Y		N	Y		N		There is a specific plan for creating or amending exisiting legislation to provide for more autonomy and legal recognition of the WUAs. "The question checks the government intention with regard to the possibility of changing the water legislation to provide a more suitable framework for WUAs"	There are specific plans for creating or amending existing legislation		
43	A	N			N		IL	36		A04013				A04010=N		N		Y	N		Y		The WUAS are established under the cooperative law without changing the exisitng water legislation "Some WUAs are established under the cooperative law and perform marketing and training activities as well which may not be of the interest to all farmers of the irrigation system.	WUAs established under cooperatives law		
44	A	N			N		IL	36		A04021				A04010=Y		Y		N	Y		N		Legal revisions have been introduced in order to improve the performance of WUAs	Legislative revisions introduced to improve the performance of WUAs		
45	A	N			N		IL	36		A04022				A04010=Y		Y		N	Y		N		legal revisions have been introduced in order to improve the performance of the PIM/IMT program implementation	Legislative revisions introduced to improve the performance ofPIM/IMT implementation		
46	A	N			N		IL	36		A04023				A04010=Y		Y		N	Y		N		Impacts of introduced Legal revisions are assessed	Impacts of introduced revisions assessed		
47	A	N			N		IL	36		A04024				A04010=Y		Y		N	Y		N		The function/s of the WUAs have been specified by a dedicated legislation regarding the WUAs. "The normal functions of the WUAS include: operation, maintenance, administration and management. The question checks if one or more of these functions have been specified by the appropriate agreements and/or legal instruments"	The function/s of the WUAs have been specified by a dedicated legislation regarding the WUAs		
48	A	N			N		IL	36		A04025				A04010=Y		Y		N	Y		N		The legal rights of the WUAs have been specified by a dedicated legislation regarding the WUAs. "Normally there is a dedicated legislation regarding the WUAs which defines the legal rights of the association"	Legal rights of the WUAs have been specified by a dedicated legislation regarding the WUAs		
49	A	N			N		IL	36		A04026				A04010=Y		Y		N	Y		N		The legal rights of the water users within the WUAs have been specified by a dedicated legislation regarding the WUAs. "Normally there is a dedicated legislation regarding the WUAs which specifies the legal rights of the members the WUA	Legal rights of the water users within the WUAs have been specified by a dedicated legislation regarding the WUAs		
50	A	N			N		IL	36		A04027				A04010=Y		Y		N	Y		N		The dedicated legislation regarding the WUAs recognizes the different types of associations that can be established. "Several farmers organizations can be entrusted with the management of the water. The question tries to asses if these different types have been considered in the dedicated law regarding the WUAs.	The dedicated legislation regarding the WUAs recognizes the different types of associations that can be established		

	A	B	C	D	E	F	G	H	I	J	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
2	output/outcome MODULE	SUBJECT OF REQUEST	LEVEL OF AGGREGATION	TYPE OF AGGREGATION	LEVEL OF APPLICABILITY	REVISER	TYPE OF INPUT	FREQUENCY	GRAPHICS & REPORT	CODE	UNIT	USE OF CURRENCY CONVERTER	FORMULA	Pre-Conditional requirement	Validation rules	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0	IQ CODED VALUE	Extended definition	Short definition (report)	OUTPUT (report)	OUTCOME (report)
51	A.5																									
52	A	N			N		IL	36		A05010						Y		N	Y		N		The government enacted a policy to reorient the mandate of the irrigation agency. "Reforming irrigation agencies do not require generally changing the law. Functions of irrigation agencies can be changed through ministerial decrees. This question checks if the government has changed the mandate of the irrigation agency as result of the PIM/IMT program"	The government enacted a policy to reorient the mandate of the irrigation agency	A legal framework of irrigation agency is revised and administrative reforms are made	The irrigation agency is functioning effectively according to a new institutional framework and has an implementation strategy
53	A	N			N		IL	36		A05020				A05010=Y		Y		N	Y		N		New roles have been given to the irrigation agency, as a result of the PIM/IMT program "The transfer of responsibilities to WUAS normally implies that the management responsibilities of the Irrigation agency decrease while those for implementation and monitoring and evaluation increase . The question checks if this has been the case"	New roles have been given to the irrigation agency, as a result of the PIM/IMT program		
54	A	N			N		IL	36		A05030				A05010=Y		Y		N	Y		N		The roles of planning, implementation and M&E of the PIM/IMT program have been added to the irrigation agency	Planning, implementation and M&E of the PIM/IMT program are recognised as part of the new roles for the irrigation agency		
55	A	N			N		IL	36		A05040				A05010=Y		Y		N	Y		N		The roles of promotion, training, field support and M&E of WUAs have been added to the irrigation agency.	Promotion, training, field support and M&E of WUAsare recognised as part of the new roles for the irrigation agency		
56	A	N			N		IL	36		A05050				A05010=Y		Y		N	Y		N		The roles of administrative and technical auditing of WUAs have been added to the irrigation agency	Administrative and technical auditing of WUAs are recognised as part of the new roles for the irrigation agency		
57	A	N			N		IL	36		A05060				A05010=Y		Y		N	Y		N		The role of the coordination of the PIM/IMT has been added to the irrigation agency	The role of the coordination of PIM/IMT is recognised as part of the new roles for the irrigation agency		
58	A	N			N		IL	36		A05070				A05010=Y		Y		N	Y		N		Administrative measures to decrease staff previously dedicated to O&M have been undertaken by the irrigation agency. "This question checks if the irrigation agency has taken administrative measures like: advanced retirement, relocation of staff, etc to reduce the number of staff that was dedicated to the management of the irrigation systems before these responsibilities were transferred to WUAs"	Administrative measures to decrease staff previously dedicated to O&M have been undertaken by the irrigation agency		
59	A	N			NR		IN	12		A05081N	no. of people												Number of staff working in the Irrigation Agency (central office) fully dedicated to the O&M of the irrigation systems during last year. If officers are working less than full time, estimate the total number of days/month they worked and divide it by 220/10. working days/month, This should give the no. of people who worked full time. If there is a fraction, round it according to the rounding rules	Number of staff working in the Irrigation Agency fully dedicated to the O&M of the irrigation systems during last year		
60		R	N	S	NR		IN	12		A05081R	no. of people												Number of staff working in the Irrigation Agency regional office(s) fully dedicated to the O&M of the irrigation systems during last year. If officers are working less than full time, estimate the total number of days/month they worked and divide it by 220/10. working days/month, This should give the no. of people who worked full time. If there is a fraction, round it according to the rounding rules	Number of staff working in the Irrigation Agency fully dedicated to the O&M of the irrigation systems during last year		
61	A	U			NR		CA	12	GA0501	M05080N	%	N	(A05081N/A05081N(-1y))*100			<90	>=90 ∧ <100	>=100	<90	>=90 ∧ <100	>=100		Percentage decrease in the number of the irrigation agency (central office) staff dedicated to O&M last year with respect to two years ago	Percentage of the number of irrigation agency staff dedicated to O&M last year with respect to two years ago		
62		U	N	A	NR		CA	12	GA0501	M05080R	%	N	(∑A05081R/∑A05081R(-1y))*100										Percentage decrease in the number of the staff in the regional office(s) of the irrigation agency dedicated to O&M last year with respect to two years ago	Percentage of the number of irrigation agency staff dedicated to O&M last year with respect to two years ago		

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
A.1													
A	N			N	IL	12	A01010						
A.2													
A	N			NR	IL	36	A02010N						
	R	N	C	NR	IL	36	A02010R						
A	N			NR	IQ	12	A02020N						(2) satisfactory (1) medium (0) not at all.
	R	N	C	NR	IQ	12	A02020R						(2) satisfactory (1) medium (0) not at all.
A	N			NR	IL	36	A02030N						
	R	N	C	NR	IL	36	A02030R						
A.3													
A	N			N	IL	36	A03010						
A	N			NR	IN	12	A03021N	currency/year					
	R	N	S	NR	IN	12	A03021R	currency/year					
A	U			NR	CA	12	M03020N	%	N	(A03021N/A03021N(-1y))*100			
	U	N	A	NR	CA	12	M03020R	%	N	(A03021R/A03021R(-1y))*100			
A	N			NR	IN	888	A03031N	currency					
	R	N	S	NR	IN	888	A03031R	currency					
A	U			NR	CA	12	M03031N	currency	N	A03031N+A03021N			
	U	N	S	NR	CA	12	M03031R	currency	N	A03031R+A03021R			
A	U			NR	CA	12	M03032N	$/Ha	Y	M03031N/∑B01021			
	U	N	A	NR	CA	12	M03032R	$/Ha	Y	M03031R/∑B01021			
A	U			NR	CA	12	M03033N	DTN/Ha	N	M03031N/∑B01021			
	U	N	A	NR	CA	12	M03033R	DTN/Ha	N	M03031R/B01021			

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
A	N			NR	IN	12	A03041N	no. of people					
	R	N	S	NR	IN	12	A03041R	no. of people					
A	U			NR	CA	12	M03040N	%	N	(A03041N/A03041N(-1y))*100			
	U	N	A	NR	CA	12	M03040R	%	N	(∑A03041R/∑A03041R(-1y))*100			
A	N			NR	IN	12	A03051N	currency/year					
	R	N	S	NR	IN	12	A03051R	currency/year					
A	U			NR	CA	12	M03050N	%	N	(A03051N/A03051N(-1y))*100			
	U	N	A	NR	CA	12	M03050R	%	N	(∑A03051R/∑A03051R(-1y))*100			
A	R	N	S	NR	IN	888	A03061	currency					
A	U	N	S	NR	CA	12	M03062	currency	N	(A03061+A03051R)			
A	U	N	A	NR	CA	12	M03063	$/Ha	Y	(M03062*1000/B01021)			
A	U	N	A	NR	CA	12	M03064	DTN/Ha	N	(M03062*1000/B01021)			
A.4													
A	N			N	IL	36	A04010						
A	N			N	IL	36	A04011				A04010=N		
A	N			N	IL	36	A04012				A04010=N		
A	N			N	IL	36	A04013				A04010=N		
A	N			N	IL	36	A04021				A04010=Y		
A	N			N	IL	36	A04022				A04010=Y		
A	N			N	IL	36	A04023				A04010=Y		
A	N			N	IL	36	A04024				A04010=Y		
A	N			N	IL	36	A04025				A04010=Y		
A	N			N	IL	36	A04026				A04010=Y		
A	N			N	IL	36	A04027				A04010=Y		
A.5													
A	N			N	IL	36	A05010						

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
A	N			N	IL	36	A05020				A05010=Y		
A	N			N	IL	36	A05030				A05010=Y		
A	N			N	IL	36	A05040				A05010=Y		
A	N			N	IL	36	A05050				A05010=Y		
A	N			N	IL	36	A05060				A05010=Y		
A	N			N	IL	36	A05070				A05010=Y		
A	N			NR	IN	12	A05081N	no. of people					
	R	N	S	NR	IN	12	A05081R	no. of people					
A	U			NR	CA	12	M05080N	%	N	(A05081N/A05081N(-1y))*100			
	U	N	A	NR	CA	12	M05080R	%	N	(∑A05081R/∑A05081R(-1y))*100			
A	N			NR	IN	888	A05091N	no. of people					
A	R	N	S	NR	IN	888	A05091R	no. of people					
A	U			NR	CA	999	M05090	%	N	(A05081N/A05091N)*100			
A	N			NR	IL	36	A05100						
A	N			NR	IL	36	A05110						
A	N			NR	IL	36	A05120						
B.1													
B	R	N	S	NR	IN	12	B01011	Ha					
B	R	N	S	NR	IN	12	B01012	Ha					
B	U			NR	CA	12	N01010	%	N	(B01011/B01012)*100			
B	R			NR	IN	12	B01021	Ha					
B	R			NR	IN	12	B01022	Ha					
B	U			NR	CA	12	N01020	%	N	(B01021/B01022)*100			
B	U			NR	CA	12	N01030	%	N	(B01011+B01021)/ (B01012+B01022)*100			
B	R	N	S	NR	IN	12	B01041	no. of WUAs					

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
B	R	N	S	NR	IN	12	B01042	no. of WUAs					
B	U			NR	CA	12	N01040	%	N	(B01041/B01042)*100			
B	R			NR	IN	12	B01051	no. of WUAs					
B	R			NR	IN	12	B01052	no. of WUAs					
B	U			NR	CA	12	N01050	%	N	(B01051/B01052)*100			
B	U			NR	CA	12	N01060	%	N	((B01041+B01051)/ (B01042)+B01052))*100			
B.2													
B	N			N	IL	36	B02010						
B	N			N	IL	36	B02020						
B	N			N	IL	36	B02030						
B	R			NR	IN	12	B02041	no. of meetings					
B	R			NR	IN	12	B02042	no. of meetings					
B	U			NR	CA	12	N02040	%	N	(B02041/B02042)*100			
B	N			NR	IL	36	B02050						
B	R			NR	IN	12	B02061	no. of people					
B	R			NR	IN	12	B02062	no. of people					
B	U			NR	CA	12	N02060	%	N	(B02061/B02062)*100			
B	N			N	IL	36	B02070						
B	N			N	IL	36	B02080						
B	N			N	IL	36	B02090						
B.3													
B	N			N	IL	36	B03010						
B	N			N	IL	36	B03020						
B	N			NR	IN	12	B03021N	no. of people					
B	R			NR	IN	12	B03021R	no. of people					

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
Bn	U			NR	CA	12	N03022	no. of people/5000Ha	N	((B03021N+∑B03021R)/ ∑B01021)/5000	B03010=Y		
Br	U			NR	CA	12	N03023	no. of people/5000Ha	N	(B03021R/B01021)/5000	B03010=Y		
B	N			NR	IN	12	B03031N	no. of days					
B	R	N	S	NR	IN	12	B03031R	no. of days					
B	N			NR	IN	12	B03032N	no. of days					
B	R			NR	IN	12	B03032R	no. of days					
Bn	U			NR	CA	12	N03031	%	N	((B03031N+∑B03031R) /(B03032N+∑B03032R))*100			
Br	U			NR	CA	12	N03032	%	N	(B03031R/B03032R)*100			
B	N			NR	IN	888	B03041N	no. of Training Days					
B	R			NR	IN	888	B03041R	no. of Training Days					
B	U			NR	CA	12	N03041	no. of Training Days	N	B03041N+∑B03031N			
B	U			NR	CA	999	N03042	no. of Training Days/Employee	N	N03041/ (B03021N+∑B03021R)			
B.4													
B	N			NR	IL	36	B04010N						
	R	N	C	NR	IL	36	B04010R						
B	N			NR	IL	36	B04020N				B04010N=Y		
	R	N	C	NR	IL	36	B04020R				B04010R=Y		
B	R			NR	IN	12	B04031	no. of courses					
B	R			NR	IN	12	B04032	no. of courses					
B	U			NR	CA	12	N04030	%	N	(B04031/B04032)*100			
B	R			NR	IN	888	B04041	no. of Courses					
B	U			NR	CA	12	N04041	no. of Courses	N	B04041+∑B04031			

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
B	U			NR	CA	999	N04042	no. of Courses per WUA	N	N04041/(B01041+B01051)			
B	R			NR	IN	12	B04051	no. of WUAs					
B	R			NR	IN	888	B04052	no. of WUAs					
B	U			NR	CA	999	N04050	%	N	(B04052+∑B04051)/ B01041+B01051))*100			
B	N			NR	IL	36	B04060N						
	R	N	C	NR	IL	36	B04060R						
B.5													
B	N			N	IL	36	B05010						
B	N			NR	IL	36	B05020N						
	R	N	C	NR	IL	36	B05020R						
B	R			NR	IN	12	B05031	no. of days					
B	R			NR	IN	12	B05032	no. of days					
B	U			NR	CA	12	N05030	%	N	(B05031/B05032)*100			
B	R			NR	IN	888	B05041	no. of days					
B	U			NR	CA	12	N05041	no. of days	N	B05041+∑B05031			
B	U			NR	CA	999	N05042	no. of Training Days per WUA	N	N05041/(B01041+B01051)			
B	R			NR	IN	36	B05051	no. of WUAs					
B	R			NR	IN	36	B05052	no. of WUAs					
B	U			NR	CA	36	N05050	%	N	(B05051/B05052)*100			
B	R			NR	IN	888	B05061	no. of WUAs					
B	U			NR	CA	12	N05061	no. of WUAs	N	B05061+∑B05051			
B	U			NR	CA	999	N05062	%	N	(N05061/(B01041+B01051))*100			
B	R			NR	IL	36	B05070						
B.6													

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
B	N			N	IL	36	B06010						
B	N			N	IL	36	B06020				B06010=Y		
B	R			NR	IN	12	B06031	no. of federations			B06010=Y		
B	R			NR	IN	12	B06032	no. of federations			B06010=Y		
B	U			NR	CA	12	N06030	%	N	(B06031/B06032)*100	B06010=Y		
B	R			NR	IN	12	B06041	Ha			B06010=Y		
B	R			NR	IN	12	B06042	Ha			B06010=Y		
B	U			NR	CA	12	N06040	%	N	(B06041/B06042)*100	B06010=Y		
B.7													
B	U			NR	CA	12	N07011	no. of WUAs	N	+COUNT.IF(AND((C06131/C06132)>0.8)			
B	U			NR	CA	12	N07012	%	N	(N07011/B01051)*100			
B	R			NR	CA	12	N07021	no. of WUAs	N	+COUNT.IF(AND(P06160>=100;year=NOW-1)			
B	U			NR	CA	12	N07022	%	N	(N07021/B01051)*100			
B.8													
B	N			N	IL	36	B08010						
B	N			NR	IL	36	B08020N						
	R	N	C	NR	IL	36	B08020R						
B	R			NR	IN	12	B08031	no. of days					
B	R			NR	IN	12	B08032	no. of days					
B	U			NR	CA	12	N08030	%	N	(B08031/B08032)*100			
B	N			NR	IL	12	B08040N						
	R	N	C	NR	IL	12	B08040R						
B.9													
B	N			N	IL	12	B09010						
B	R			NR	IN	12	B09021	no. of WUAs			B09010=Y		

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
B	U			NR	CA	12	N09020	%	N	(B09021/ (B01041+B01051))*100	B09010=Y		
B	N			NR	IL	12	B09030N				B09010=Y		
	R	N	C	NR	IL	12	B09030R				B09010=Y		
B	R			NR	IN	12	B09041	no. of WUAs			B09010=Y		
B	R			NR	IN	12	B09042	no. of WUAs			B09010=Y		
B	U			NR	CA	12	N09040	%	N	(B09041/B09042)*100	B09010=Y		
B	R			NR	IN	888	B09051	no. of WUAs			B09010=Y		
B	R			NR	CA	12	N09052	no. of WUAs	N	B09051+∑B09041	B09010=Y		
B	R			NR	IN	888	B09053	no. of WUAs			B09010=Y		
B	R			NR	CA	12	N09054	no. of WUAs	N	B09053+∑B09042	B09010=Y		
B	R			NR	CA	999	N09055	%	N	N09052/N09054	B09010=Y		
C.1													
C	L				IL	36	C01010						
C	L	NR	C		IL	36	C01011						
C.2													
C	L	NR	S		IN	12	C02011	no. of people				C02011<=C02012	
C	L				IN	12	C02012	no. of people			C02012>C02011		
C	U				CA	12	P02010	%	N	(C02011/C02012)*100			
C	L				IN	12	C02020	no. of meetings					
C	L				IN	12	C02031	no. of people					
C	U	R	A		CA	12	P02030	%	N	(C02031/C02011)*100			
C	L				IN	12	C02041	no. of meetings					
C	L				IN	12	C02042	no. of meetings					
C	U	R	A		CA	12	P02040	%	N	(C02041/C02042)*100			

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
C	L	R	C		IQ	12	C02050						(2) secret voting (1) selection (0) not at all
C	L	NR	S		IN	12	C02061	no. of women					
C	L				IN	12	C02062	no. of women			C02061>=2		
C	U	NR	A		CA	12	P02060	%	N	(C02062/C02061)*100	C02061>=2		
C	L	NR	S		IN	12	C02063	no. of women			C02061>=2		
C	L	R	C		IL	36	C02070						
C	L				IL	12	C02080						
C	L	R	C		IL	12	C02090						
C	L	R	C		IL	12	C02100						
C	L				IL	36	C02110						
C	L				IL	12	C02120						
C.3													
C	L				IL	12	C03010						
C	L	R	S		IN	12	C03021	m^3/Ha					
C	L				IN	12	C03022	m^3					
C	L				IN	12	C03023	m^3					
C	L	NR	S		IN	888	C03024	Ha					
C	U				CA	12	P03021	m^3	N	C03022+C03023			
C	U				CA	12	P03022	m^3/Ha	N	P03021/C03024			
C	U	NR	A		CA	12	P03023	%	N	(P03022/C03021)*100			
C	U				IN	36	C03030	m^3/Ha					
C	L				IN	12	C03041	m^3					
C	U				CA	12	P03041	m^3/Ha	N	C03041/C03024			
C	U	R	A		CA	12	P03042	%	N	(P03041/P03030)*100			

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
C	L				IN	12	C03051	m^3			C03022> 0		
C	L				IN	12	C03052	m^3			C03023 > 0		
C	U				CA	12	P03051	m^3	N	C03051+C03052			
C	U	NR	A		CA	12	P03052	adimensional	N	C03051/C03022	C03022> 0		
C	U	NR	A		CA	12	P03060	adimensional	N	C03052/C03023	C03023 > 0		
C	L	NR	S		IN	12	C03071	Ha					
C	U	R	S		CA	12	P03071	m^3/Ha	N	P03051/C03071			
C	L	R	S		IN	888	C03072	m^3/Ha					
C	U	NR	A		CA	12	P03072	%	N	(P03071/C03072)*100			
C	L				IN	12	C03081	Ha					
C	U	NR	A		CA	12	P03081	adimensional	N	C03081/C03071			
C	L	NR	S		IN	12	C03091	Ha			C03022> 0	C03091<=C03024	
C	U	NR	A		CA	12	P03091	%	N	C03091/C03024*100		C03101<=100	
C	L	NR	S		IN	12	C03101	Ha			C03023> 0	C03101<=C03024	
C	U	NR	A		CA	12	P03101	%	N	C03101/C03024*100		P03101<=100	
C	L	NR	S		IN	12	C03102	Ha				C03102<=C03024	
C	U	NR	A		CA	12	P03102	%	N	C03102/C03024*100		P03102<=100	
C	L	NR	S		IN	12	C03103	Ha				C03103<=C03024	
C	U	NR	A		CA	12	P03103	%	N	C03103/C03024*100		P03103<=100	
C	L	NR	S		IN	12	C03104	Ha				C03104<=C03024	
C	U	NR	A		CA	12	P03104	%	N	C03104/C03024*100		P03104<=100	
C.4													
C	L				IN	12	C04011	no. of days					
C	L				IN	12	C04012	no. of days					
C	U				CA	12	P04010	adimensional	N	C04011/C04012			

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
C	L	NR	S		IN	12	C04021	no. of on-farm reservoirs					
C	U	NR	A		CA	12	P04020	adimensional	N	C04021/C02011			
C	L				IN	12	C04031	l/sec					
C	L				IN	12	C04032	l/sec					
C	U	R	A		CA	12	P04030	adimensional	N	C04031/C04032	C04031 >0 ∧ C04032>0		
C	L				IN	12	C04041	l/sec			C03022> 0		
C	L				IN	12	C04042	l/sec			C03022>0		
C	U	R	A		CA	12	P04040	adimensional	N	(C04041/C04042)	C03022> 0		
C	L				IN	12	C04051	bar			C03023 > 0		
C	L				IN	12	C04052	bar			C03023 > 0		
C	U	R	A		CA	12	P04050	%	N	C04052/C04051	C03023 > 0		
C	L	NR	A		IN	12	C04061	%			C03023 > 0		
C	L	NR	A		IN	12	C04062	%			C03023 > 0		
C.5													
C	L	R	C		IL	12	C05010						
C	L	R	C		IL	12	C05020						
C	L	R	C		IL	12	C05030						
C	L	R	C		IL	12	C05040						
C	L	R	C		IL	12	C05050						
C	L	NR	A		IN	12	C05060	%					
C	L	NR	A		IN	12	C05070	%					
C	L				IN	12	C05081	currency					
C	L				IN	12	C05082	currency					
C	U				CA	12	P05080	%	N	(C05081/C05082)*100			
C.6													

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
C	L				IL	12	C06010						
C	L	NR	C		IL	12	C06020						
C	L				IL	12	C06030						
C	L				IL	12	C06040						
C	L				IN	12	C06051	currency					
C	L				IN	12	C06052	currency/Ha					
C	U	NR	A		CA	12	P06050	currency/Ha	N	C06051/C03024			
C	L	R	A		IN	12	C06061	currency/m^3					
C	U				CA	12	P06060	currency/m^3	N	C06051/P03051			
C	L	R	S		IN	12	C06071	currency/m^3					
C	U				CA	12	P06070	currency/m^3	N	C06051/P03021			
C	L	NR	S		IN	12	C06080	US$					
C	L				IN	12	C06091	currency					
C	L				IN	12	C06092	currency/Ha					
C	L				IN	12	C06093	DTN					
C	U	R	A		CA	12	P06091	US$/Ha	Y	C06091/C03024			
C	U	R	A		CA	12	P06092	currency/Ha	N	C06093/C03024			
C	L				IN	12	C06101	currency					
C	L				IN	12	C06102	currency/Ha					
C	U	R	A		CA	12	P06100	currency/Ha	N	C06101/C03024			
C	L	R	S		IN	12	C06111	currency/Ha					
C	L	NR	S		IN	12	C06112	currency/Ha					
C	L				IN	12	C06121	currency/m^3					
C	L	NR	S		IN	12	C06122	currency/m^3					
C	L				IN	12	C06131	currency					
C	U				IN	12	C06132	currency					

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
C	U	NR	A		CA	12	P06140	adimensional	N	C06131/C06132			
C	L				IN	12	C06151	no. of users					
C	U	NR	A		CA	12	P06150	%	N	(C06151/C02011)*100			
C	U				CA	12	P06160	%	N	(C06132/C06051)*100			
C.7													
C	L				IL	36	C07010						
C	L				IL	36	C07020						
C	L	NR	S		IN	12	C07031	no. of people					
C	U	NR	A		CA	12	P07030	no. of people/1000Ha	N	(C07031/C03024)*1000			
C	L				IL	36	C07040						
C	L				IL	36	C07050						
C	L	NR	S		IN	12	C07061	no. of sessions					
C	U				CA	12	P07060	%	N	(C07061/C07061(-1y))*100			
C	L	NR	A		IN	36	C07070	%					
C	L	NR	A		IN	36	C07080	%					
C.8													
C	L				IN	12	C08011	no. of penalties					
C	U	R	A		CA	12	P08010	%	N	(C08011/C08011(-1y))*100			
C	L				IN	12	C08021	currency					
C	U				CA	12	P08020	%	N	(C08021/C08021(-1y))*100			
C	L				IN	12	C08031	adimensional					
C	U				CA	12	P08030	adimensional	N	P03052/C08031			
C	L				IN	12	C08041	adimensional					
C	U	NR	A		CA	12	P08040	adimensional	N	P03060/C08041			

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
C	U	NR	A		CA	36	P08051	currency/Ha	N	$\frac{\sum_{x=-5year}^{-1year} C05081(x)/5}{C03024}$			
C	L	NR	S		IN	36	C08052	currency/Ha					
C	U	NR	A		CA	36	P08052	adimensional	N	P08051/C08052			
C.9													
C	L	NR	C		IL	36	C09010						
C	L	NR	C		IL	36	C09021				C09010=Y		
C	L				IL	12	C09022				C09010=Y		
C	L				IL	12	C09023				C09010=Y		
C	L	NR	C		IL	12	C09024				C09010=Y		
C	U	NR	A		IN	36	P09030	%			C09010=Y		
C.10													
C	L				IN	36	C10011	dS/m			C10012=0	C10011>0	
C	L				IN	36	C10012	g/liter			C10011=0	C10012>0	
C	L	NR	C		IL	12	C10020						
C	L	NR	S		IN	12	C10040	m^3			C10020=Y		
C	L				IL	12	C10050						
C	L	NR	S		IN	12	C10060	m^3			C10050=Y		
D.1													
D	U	NR	A		RE	12	T00011			+P03023			
D	U	R	A		RE	12	T00012			+P03042			
D	U	NR	A		RE	12	T00013			+P03052			
D	U	NR	A		RE	12	T00014			+P03060			
D	U	NR	A		RE	12	T00015			+P03081			
D.2													

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
D	L	NR	S		RE	12	T00021			+C06112			
D	L	NR	S		RE	12	T00022			+C06122			
D	U	NR	A		RE	12	T00023			+P06160			
D	U	NR	A		RE	12	T00024			+P06140			
D	U	NR	A		RE	12	T00025			+P06150			
D.3													
D	L	NR	A		RE	36	T00031			+C07070			
D.4													
D	L				IN	12	D04021	tons					
D	L				IN	12	D04022	currency					
D	U	NR	A		CA	12	R04020	US$/Ha	Y	D04022/C03071			
D	U	NR	A		CA	12	R04030	US$/$m^3$	Y	D04022/P03051			
D	L				IN	12	D04041	Ha					
D	U	NR	A		CA	12	R04040	%	N	(D04041/C03024)*100			
D	L				IN	12	D04051	no. of crops					
D	L	R	S		IN	12	D04052	no. of crops					
D	L	R	A		CA	12	R04050	%	N	D04052/D04051 * 100			
D.5													
D	L				IN	12	D05011	Ha					
D	U	NR	A		CA	12	R05010	%	N	(D05011/D05011(-1y))*100			
D	L				IN	12	D05021	Ha					
D	U	NR	A		CA	12	R05020	%	N	(D05021 /D05021(-1y))*100			
D.6													
D	L				IL	12	D06010						
D	L	NR	S		IN	12	D06020	kg			D06010=Y		
D	U	NR	A		CA	12	R06020	%	N	(D06020/D06020(-1y))*100	D06010=Y		

Outcome MODULE	Subject of request	Level of aggegation	Type of aggegation	Level of applicability	Type of input	Frequency	CODE	UNIT	Currency converter	FORMULA	Pre-Conditional requirement	Validation rules	IQ CODED VALUE
D.7													
D	R	N	S		IN	888	D07010	currency/Ha					
D	U	NR	A		CA	999	R07010	%	N	(P06050/D07010)*100			
D.8													
D	R	N	S		IN	888	D08010	m^3/Ha					
D	U	NR	A		CA	999	R08010	%	N	(P03030/D08010)*100			
D.9													
D	R	N	S		IN	888	D09011	no. of jobs					
D	L	NR	S		IN	888	D09012	no. of jobs					
D	L	NR	S		IN	12	D09013	no. of jobs					
D	L	NR	S		CA	12	R09011	no. of jobs	N	D09012+∑D09013			
D	U	NR	A		CA	999	R09012	%	N	(R09011/D09011)*100			
D	R	N	S		IN	888	D09021	no. of contractors					
D	L	NR	S		IN	888	D09022	no. of contractors					
D	L	NR	S		IN	12	D09023	no. of contractors					
D	L	NR	S		CA	12	R09021	no. of contractors	N	D09022+∑D09023			
D	U	NR	A		CA	999	R09022	%	N	(R09021/D09021)*100			

output/outcome MODULE	CODE	UNIT	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
A.1								
A	**A01010**		Y		N	Y		N
A.2								
A	**A02010N**		Y		N	Y		N
A	**A02020N**		2	1	0	2	1	0
A	**A02030N**		Y		N	Y		N
A.3								
A	**A03010**		Y		N	Y		N
A	**M03020N**	**%**	>=100	>=90 ∧ <100	<90	>=100	>=90 ∧ <100	<90
A	**M03032N**	**$/Ha**	>=500	>=200 ∧ <=500	<200	>=500	>=200 ∧ <=500	<200
A	**M03033N**	**DTN/Ha**	>=75 ∧ <=125	>=40 ∧ <75	<40 ∧ >125	>=75 ∧ <=125	>=40 ∧ <75	<40 ∧ >125
A	**M03040N**	**%**	>=100	>=90 ∧ <100	<90	>=100	>=90 ∧ <100	<90
A	**M03050N**	**%**	>=100	>=90 ∧ <100	<90	>=100	>=90 ∧ <100	<90
A	**M03063**	**$/Ha**	>=1000	<1000 ∧ >=500	<500	>=1000	<1000 ∧ >=500	<500
A	**M03064**	**DTN/Ha**	>=5000000	<5000000 ∧ >=3000000	<3000000	>=5000000	<5000000 ∧ >=3000000	<3000000
A.4								
A	**A04010**		Y		N	Y		N
A	**A04011**		Y		N	Y		N
A	**A04012**		Y		N	Y		N
A	**A04013**		N		Y	N		Y
A	**A04021**		Y		N	Y		N
A	**A04022**		Y		N	Y		N
A	**A04023**		Y		N	Y		N
A	**A04024**		Y		N	Y		N

output/outcome MODULE	CODE	UNIT	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
A	A04025		Y		N	Y		N
A	A04026		Y		N	Y		N
A	A04027		Y		N	Y		N
A.5								
A	A05010		Y		N	Y		N
A	A05020		Y		N	Y		N
A	A05030		Y		N	Y		N
A	A05040		Y		N	Y		N
A	A05050		Y		N	Y		N
A	A05060		Y		N	Y		N
A	A05070		Y		N	Y		N
A	M05080N	%	<90	>=90 /\ <100	>=100	<90	>=90 /\ <100	>=100
A	M05090	%	<35	>=35 /\ <=65	>65	<35	>=35 /\ <=65	>65
A	A05100		Y		N	Y		N
A	A05110		Y		N	Y		N
A	A05120		Y		N	Y		N

output/outcome MODULE	CODE	UNIT	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
B.1								
B	**N01010**	**%**	>=80	>=60 ∧ <80	<60	>=80	>=60 ∧ <80	<60
B	**N01020**	**%**	>=80	>=60 ∧ <80	<60	>=80	>=60 ∧ <80	<60
B	**N01030**	**%**	>=80	>=60 ∧ <80	<60	>=80	>=60 ∧ <80	<60
B	**N01040**	**%**	>=80	>=60 ∧ <80	<60	>=80	>=60 ∧ <80	<60
B	**N01050**	**%**	>=80	>=60 ∧ <80	<60	>=80	>=60 ∧ <80	<60
B	**N01060**	**%**	>=80	>=60 ∧ <80	<60	>=80	>=60 ∧ <80	<60
B.2								
B	**B02010**		Y		N	Y		N
B	**B02020**		Y		N	Y		N
B	**B02030**		Y		N	Y		N
B	**N02040**	**%**	>=90	>=70 ∧ <90	<70	>=90	>=70 ∧ <90	<70
B	**B02050**		Y		N	Y		N
B	**N02060**	**%**	>=90	>=70 ∧ <90	<70	>=90	>=70 ∧ <90	<70
B	**B02070**		Y		N	Y		N
B	**B02080**		Y		N	Y		N
B	**B02090**		Y		N	Y		N
B.3								
B	**B03010**		Y		N	Y		N
B	**B03020**		Y		N	Y		N
Bn	**N03022**	**no. of people/5000Ha**	>=2	>=1 ∧ <2	<1	>=2	>=1 ∧ <2	<1
Br	**N03023**	**no. of people/5000Ha**	>=2	>=1 ∧ <2	<1	>=2	>=1 ∧ <2	<1
Bn	**N03031**	**%**	>=90	>=80 ∧ <90	<80	>=90	>=80 ∧ <90	<80
Br	**N03032**	**%**	>=90	>=80 ∧ <90	<80	>=90	>=80 ∧ <90	<80

output/outcome MODULE	CODE	UNIT	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
B	N03042	no. of Training Days/Employee				>=10	>=5 ∧ <10	<5
B.4								
B	B04010N		Y		N	Y		N
B	B04020N		Y		N	Y		N
B	N04030	%	>=90	>=70 ∧ <90	<70	>=90	>=70 ∧ <90	<70
B	N04042	no. of Courses per WUA				>=3	>=2 ∧ <3	<2
B	N04050	%				>=90	>=70 ∧ <90	<70
B	B04060N		Y		N	Y		N
B.5								
B	B05010		Y		N	Y		N
B	B05020N		Y		N	Y		N
B	N05030	%	>=90	>=75 ∧ <90	<75	>=90	>=75 ∧ <90	<75
B	N05042	no. of Training Days per WUA				>2	=2	<2
B	N05050	%	>=90	>=75 ∧ <90	<75	>=90	>=75 ∧ <90	<75
B	N05062	%				>=90	>=75 ∧ <90	<75
B	B05070		Y		N	Y		N

output/outcome MODULE	CODE	UNIT	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
B.6								
B	B06010		Y		N	Y		N
B	B06020		Y		N	Y		N
B	N06030	%	>=90	>=70 Λ <90	<70	>=90	>=70 Λ <90	<70
B	N06040	%	>=90	>=70 Λ <90	<70	>=90	>=70 Λ <90	<70
B.7								
B	N07012	%	>=80	>=50 Λ <80	<50	>=80	>=50 Λ <80	<50
B	N07022	%	>=80	>=50 Λ <80	<50	>=80	>=50 Λ <80	<50
B.8								
B	B08010		Y		N	Y		N
B	B08020N		Y		N	Y		N
B	N08030	%	>=90	>=75 Λ <90	<75	>=90	>=75 Λ <90	<75
B	B08040N		Y		N	Y		N
B.9								
B	B09010		Y		N	Y		N
B	N09020	%	>=90	>=50 Λ <90	<50	>=90	>=50 Λ <90	<50
B	B09030N		Y		N	Y		N
B	N09040	%	>=80	>=60 Λ <80	<60	>=80	>=60 Λ <80	<60
B	N09055	%				>=90	>=60 Λ <90	<60

output/outcome MODULE	CODE	UNIT	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
C.1								
C	C01010		Y		N	Y		N
C	C01011		Y		N	Y		N
C.2								
C	P02010	%	>=90	>=80 ∧ <90	<80	>=90	>=80 ∧ <90	<80
C	C02020	no. of meetings	>=2	1	0	>=2	1	0
C	P02030	%	>=50	>=30 ∧ <50	<30	>=50	>=30 ∧ <50	<30
C	P02040	%	>=90	>=70 ∧ <90	<70	>=90	>=70 ∧ <90	<70
C	C02050		2	1	0	2	1	0
C	P02060	%	>=80	<80 ∧ >60	<=60	>=80	<80 ∧ >60	<=60
C	C02063	no. of women	>=2	1	0	>=2	1	0
C	C02070		Y		N	Y		N
C	C02080		Y		N	Y		N
C	C02090		Y		N	Y		N
C	C02100		Y		N	Y		N
C	C02110		Y		N	Y		N
C	C02120		Y		N	Y		N
C.3								
C	C03010		Y		N	Y		N
C	P03023	%	>=80	>=50 ∧ <80	<50	>=80	>=50 ∧ <80	<50
C	C03030	m^3/Ha	>=1700	>=1200 ∧ <1700	<1200	>=1700	>=1200 ∧ <1700	<1200
C	P03042	%	>=80	>=50 ∧ <80	<50	>=80	>=50 ∧ <80	<50
C	P03052	adimensional	>=0.70	>=0.50 ∧ <0.70	<0.50	>=0.70	>=0.50 ∧ <0.70	<0.50
C	P03060	adimensional	>=0.95	>=0.80 ∧ <0.95	<0.80	>=0.95	>=0.80 ∧ <0.95	<0.80

output/outcome MODULE	CODE	UNIT	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
C	P03072	%	>=80	>=50 Λ <80	<50	>=80	>=50 Λ <80	<50
C	P03081	adimensional	>=2.5	>=2.5 Λ <1.5	<1.5	>=2.5	>=2.5 Λ <1.5	<1.5
C.4								
C	P04010	adimensional	>=1	>=0.5 Λ <1	<0.5	>=1	>=0.5 Λ <1	<0.5
C	P04020	adimensional	<0.1	>=0.1 Λ <0.5	>=0.5	<0.1	>=0.1 Λ <0.5	>=0.5
C	P04030	adimensional	>=0.8	>=0.6 Λ <0.8	<0.6	>=0.8	>=0.6 Λ <0.8	<0.6
C	P04040	adimensional	>=0.90	>=0.80 Λ <0.90	<0.80	>=0.90	>=0.80 Λ <0.90	<0.80
C	P04050	%	>=0.90	>=0.80 Λ <0.90	<0.80	>=0.90	>=0.80 Λ <0.90	<0.80
C	C04061	%	>=90	>=80 Λ <90	<80	>=90	>=80 Λ <90	<80
C	C04062	%	>=90	>=80 Λ <90	<80	>=90	>=80 Λ <90	<80
C.5								
C	C05010		Y		N	Y		N
C	C05020		Y		N	Y		N
C	C05030		Y		N	Y		N
C	C05040		Y		N	Y		N
C	C05050		Y		N	Y		N
C	C05060	%	>=90	>=80 Λ <90	<80	>=90	>=80 Λ <90	<80
C	C05070	%	>=90	>=80 Λ <90	<80	>=90	>=80 Λ <90	<80
C	P05080	%	>=90	>=80 Λ <90	<80	>=90	>=80 Λ <90	<80

output/outcome MODULE	CODE	UNIT	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
C.6								
C	C06010		Y		N	Y		N
C	C06020		Y		N	Y		N
C	C06030		Y		N	Y		N
C	C06040		Y		N	Y		N
C	P06050	currency/Ha	<= 1	> 1 ∧ < 1.15	>= 1.15	<= 1	> 1 ∧ < 1.15	>= 1.15
C	P06060	currency/m^3	<= 1	> 1 ∧ < 1.15	>= 1.15	<= 1	> 1 ∧ < 1.15	>= 1.15
C	P06070	currency/m^3	<= 1	> 1 ∧ < 1.15	>= 1.15	<= 1	> 1 ∧ < 1.15	>= 1.15
C	C06080	US$	>=1000	>=-1000 ∧ <1000	<-1000	>=1000	>=-1000 ∧ <1000	<-1000
C	P06091	US$/Ha	<=20	>20 ∧ <50	>=50	<=20	>20 ∧ <50	>=50
C	P06092	currency/Ha	<= 1	> 1 ∧ < 1.15	>= 1.15	<= 1	> 1 ∧ < 1.15	>= 1.15
C	P06100	currency/Ha	<= 1	> 1 ∧ < 1.15	>= 1.15	<= 1	> 1 ∧ < 1.15	>= 1.15
C	C06112	currency/Ha	>= 1	> 0.9 ∧ < 1	<= 0.90	>= 1	> 0.9 ∧ < 1	<= 0.90
C	C06122	currency/m^3	>= 1	> 0.9 ∧ < 1	<= 0.90	>= 1	> 0.9 ∧ < 1	<= 0.90
C	P06140	adimensional	>= 0.8	>0.6 ∧ <0.8	<=0.6	>=0.8	>0.6 ∧ <0.8	<=0.6
C	P06150	%	<=20	>20 ∧ <40	>=40	<=20	>20 ∧ <40	>=40
C	P06160	%	>=100	>70 ∧ <100	<=70	>=100	>70 ∧ <100	<=70
C.7								
C	C07010		Y		N	Y		N
C	C07020		Y		N	Y		N
C	P07030	no. of people/1000Ha	>=10	>5 ∧ <10	<=5	>=10	>5 ∧ <10	<=5
C	C07040		Y		N	Y		N
C	C07050		Y		N	Y		N
C	P07060	%	>=80	>50 ∧ <80	<=50	>=80	>50 ∧ <80	<=50

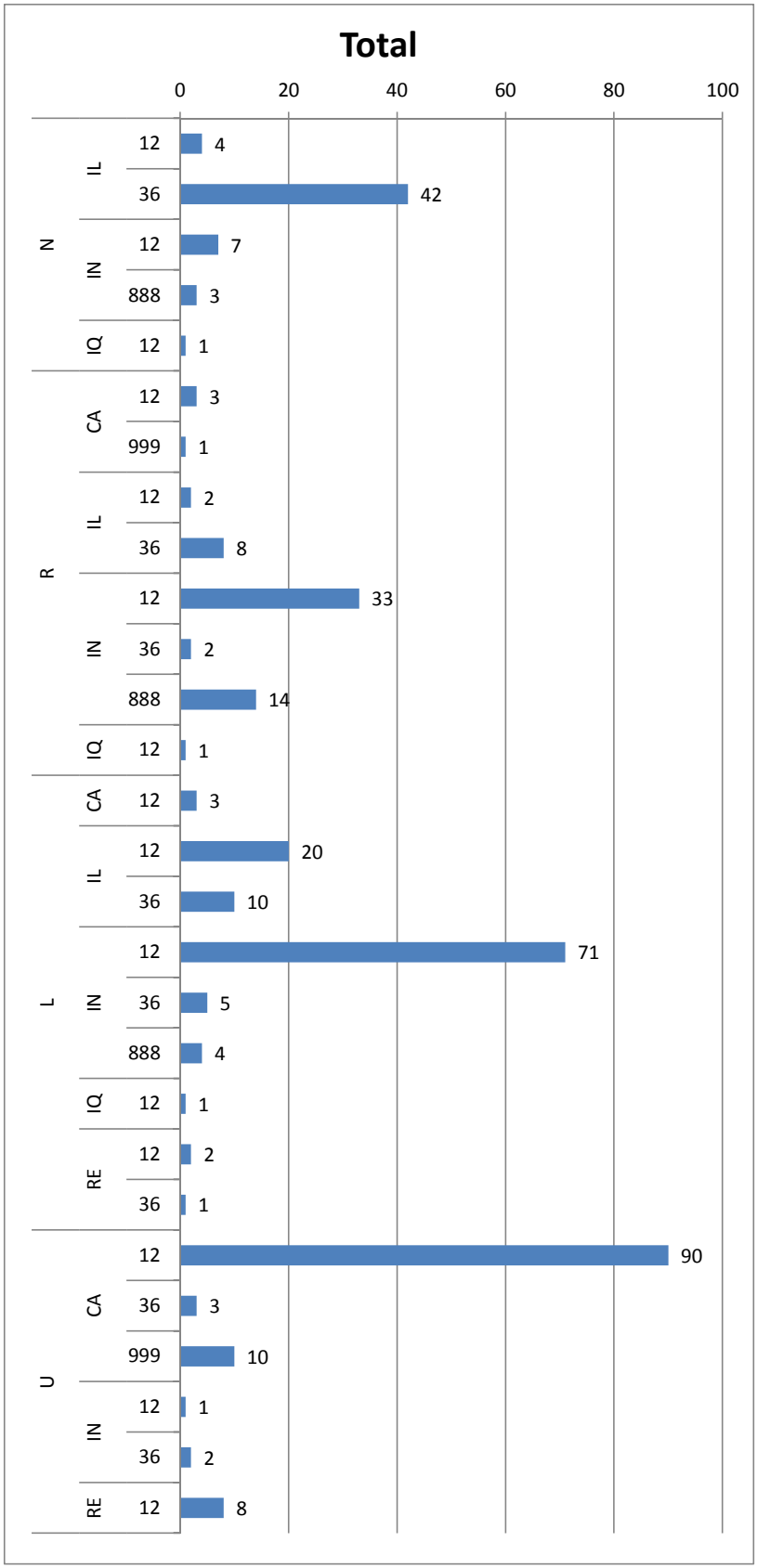
output/outcome MODULE	CODE	UNIT	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
C	C07070	%	>=80	>50 Λ <80	<=50	>=80	>50 Λ <80	<=50
C	C07080	%	>=80	>50 Λ <80	<=50	>=80	>50 Λ <80	<=50
C.8								
C	P08010	%	>=80	>50 Λ <80	<=50	>=80	>50 Λ <80	<=50
C	P08020	%	>=80	>50 Λ <80	<=50	>=80	>50 Λ <80	<=50
C	P08030	adimensional	>=1	>0.9 Λ <1	<=0.9	>=1	>0.9 Λ <1	<=0.9
C	P08040	adimensional	>=1	>0.9 Λ <1	<=0.9	>=2	>0.9 Λ <1	<=0.9
C	P08052	adimensional	>=1	>0.9 Λ <1	<=0.9	>=1	>0.9 Λ <1	<=0.9
C.9								
C	C09010		Y		N	Y		N
C	C09021		Y		N	Y		N
C	C09022		Y		N	Y		N
C	C09023		Y		N	Y		N
C	C09024		Y		N	Y		N
C	P09030	%	>=80	>50 Λ <80	<=50	>=80	>50 Λ <80	<=50
C.10								
C	C10011	dS/m	>=0.1 Λ <=0.7	>0.7 Λ <3.0	>=3.0	>=0.1 Λ <=0.7	>0.7 Λ <3.0	>=3.0
C	C10012	g/liter	<=1.5	>1.5 Λ <2	>=2	<=1.5	>1.5 Λ <2	>=2
C	C10020		Y		N	Y		N
C	C10040	m^3	<-0.02	>=-0.02 Λ <=0.02	>0.02	<-0.02	>=-0.02 Λ <=0.02	>0.02
C	C10050		Y		N	Y		N
C	C10060	m^3	>0.02	>=-0.02 Λ <=0.02	<-0.02	>0.02	>=-0.02 Λ <=0.02	<-0.02

output/outcome MODULE	CODE	UNIT	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
D.1								
D	T00011		>=80	>=50 ∧ <80	<50	>=80	>=50 ∧ <80	<50
D	T00012		>=80	>=50 ∧ <80	<50	>=80	>=50 ∧ <80	<50
D	T00013		>=0.70	>=0.50 ∧ <0.70	<0.50	>=0.70	>=0.50 ∧ <0.70	<0.50
D	T00014		>=0.95	>=0.80 ∧ <0.95	<0.80	>=0.95	>=0.80 ∧ <0.95	<0.80
D	T00015		>=2.5	>=2.5 ∧ <1.5	<1.5	>=2.5	>=2.5 ∧ <1.5	<1.5
D.2								
D	T00021		>= 1	>0.9 ∧ <1	<=0.90	>=C06111	>0.9 ∧ <1	<=0.90
D	T00022		>= 1	>0.9 ∧ <1	<=0.90	>=C06121	>0.9 ∧ <1	<=0.90
D	T00023		>=100	>70 ∧ <100	<=70	>=100	>70 ∧ <100	<=70
D	T00024		>=0.8	>0.6 ∧ <0.8	<=0.6	>=0.8	> 0.6 ∧ < 0.8	<=0.6
D	T00025		<=20	>20 ∧ <40	>=40	<=20	>20 ∧ <40	>=40
D.3								
D	T00031		>=80	>50 ∧ <80	<=50	>=80	>50 ∧ <80	<=50
D.4								
D	R04020	US$/Ha	>=5000	>=1000 ∧ <5000	<1000	>=5000	>=1000 ∧ <5000	<1000
D	R04030	US$/$m^3$	>=0.3	>=0.05 ∧ <0.3	<0.05	>=0.3	>=0.05 ∧ <0.3	<0.05
D	R04040	%	>=50	>=20 ∧ <50	<20	>=50	>=20 ∧ <50	<20
D	R04050	%	>=120	>=100 ∧ <120	<100	>=120	>=100 ∧ <120	<100
D.5								
D	R05010	%	<=90	>90 ∧ <100	>=100	<=90	>90 ∧ <100	>=100
D	R05020	%	<=90	>90 ∧ <100	>=100	<=90	>90 ∧ <100	>=100
D.6								
D	D06010		Y		N	Y		N

output/outcome MODULE	CODE	UNIT	score (FIRST 10 YEARS): 2	score (FIRST 10 YEARS): 1	score (FIRST 10 YEARS): 0	score (AFTER 10 YEARS): 2	score (AFTER 10 YEARS): 1	score (AFTER 10 YEARS): 0
D	R06020	%	>=100	>=90 ∧ <100	<90	>=100	>=90 ∧ <100	<90
D.7								
D	R07010	%				<=85	>85 ∧ <95	>=95
D.8								
D	R08010	%				>=120	<120 ∧ >100	<=100
D.9								
D	R09012	%				>150	<150 ∧ >110	<110
D	R09022	%				>300	<300 ∧ >150	>150

Statistics

-Subject of Request -----Type of Input ----------Frequency	Count
N	**57**
IL	
12	4
36	42
IN	
12	7
888	3
IQ	
12	1
R	**64**
CA	
12	3
999	1
IL	
12	2
36	8
IN	
12	33
36	2
888	14
IQ	
12	1
L	**117**
CA	
12	3
IL	
12	20
36	10
IN	
12	71
36	5
888	4
IQ	
12	1
RE	
12	2
36	1
U	**114**
CA	
12	90
36	3
999	10
IN	
12	1
36	2
RE	
12	8
Total	**352**



Scoring criteria definition																								
CODE	SCO2FP	SC2FP	SCO2FPsec	SC2FPsec	SCO1FP	SC1FP	SCO1FPsec	SC1FPsec	SCO0FP	SC0FP	SCO0FPsec	SC0FPsec	SCO2SP	SC2SP	SCO2SPsec	SC2SPsec	SCO1SP	SC1SP	SCO1SPsec	SC1SPsec	SCO0SP	SC0SP	SCO0SPsec	SC0SPsec	TIME
A01010		Y								N				Y								N			15
A02010N		Y								N				Y								N			15
A02020N		2				1				0				2				1				0			15
A02030N		Y								N				Y								N			15
A03010		Y								N				Y								N			15
A04010		Y								N				Y								N			15
A04011		Y								N				Y								N			15
A04012		Y								N				Y								N			15
A04013		N								Y				N								Y			15
A04021		Y								N				Y								N			15
A04022		Y								N				Y								N			15
A04023		Y								N				Y								N			15
A04024		Y								N				Y								N			15
A04025		Y								N				Y								N			15
A04026		Y								N				Y								N			15
A04027		Y								N				Y								N			15
A05010		Y								N				Y								N			15
A05020		Y								N				Y								N			15
A05030		Y								N				Y								N			15
A05040		Y								N				Y								N			15
A05050		Y								N				Y								N			15
A05060		Y								N				Y								N			15
A05070		Y								N				Y								N			15
A05100		Y								N				Y								N			15
A05110		Y								N				Y								N			15
A05120		Y								N				Y								N			15
B02010		Y								N				Y								N			15
B02020		Y								N				Y								N			15

Scoring criteria definition																								
CODE	**SCO2FP**	SC2FP	**SCO2FPsec**	SC2FPsec	**SCO1FP**	SC1FP	**SCO1FPsec**	SC1FPsec	**SCO0FP**	SC0FP	**SCO0FPsec**	SC0FPsec	**SCO2SP**	SC2SP	**SCO2SPsec**	SC2SPsec	**SCO1SP**	SC1SP	**SCO1SPsec**	SC1SPsec	**SCO0SP**	SC0SP	**SCO0SPsec**	SC0SPsec	TIME
B02030		Y								N				Y								N			15
B02050		Y								N				Y								N			15
B02070		Y								N				Y								N			15
B02080		Y								N				Y								N			15
B02090		Y								N				Y								N			15
B03010		Y								N				Y								N			15
B03020		Y								N				Y								N			15
B04010N		Y								N				Y								N			15
B04010R		Y								N				Y								N			15
B04020N		Y								N				Y								N			15
B04020R		Y								N				Y								N			15
B04060N		Y								N				Y								N			15
B04060R		Y								N				Y								N			15
B05010		Y								N				Y								N			15
B05020N		Y								N				Y								N			15
B05020R		Y								N				Y								N			15
B05070		Y								N				Y								N			15
B06010		Y								N				Y								N			15
B06020		Y								N				Y								N			15
B08010		Y								N				Y								N			15
B08020N		Y								N				Y								N			15
B08020R		Y								N				Y								N			15
B08040N		Y								N				Y								N			15
B08040R		Y								N				Y								N			15
B09010		Y								N				Y								N			15
B09030N		Y								N				Y								N			15
B09030R		Y								N				Y								N			15
C01010		Y								N				Y								N			15

Scoring criteria definition																								
CODE	**SCO2FP**	SC2FP	**SCO2FPsec**	SC2FPsec	**SCO1FP**	SC1FP	**SCO1FPsec**	SC1FPsec	**SCO0FP**	SC0FP	**SCO0FPsec**	SC0FPsec	**SCO2SP**	SC2SP	**SCO2SPsec**	SC2SPsec	**SCO1SP**	SC1SP	**SCO1SPsec**	SC1SPsec	**SCO0SP**	SC0SP	**SCO0SPsec**	SC0SPsec	TIME
C01011		Y								N				Y								N			15
C02020	**3**	2			**3**	1	**2**	2	**3**	0	**2**	1	**3**	2			**3**	1	**2**	2	**3**	0	**2**	1	15
C02050		2				1				0				2				1				0			15
C02063	**3**	2			**3**	1	**2**	2	**3**	0	**2**	1	**3**	2			**3**	1	**2**	2	**3**	0	**2**	1	15
C02070		Y								N				Y								N			15
C02080		Y								N				Y								N			15
C02090		Y								N				Y								N			15
C02100		Y								N				Y								N			15
C02110		Y								N				Y								N			15
C02120		Y								N				Y								N			15
C03010		Y								N				Y								N			15
C03030	**3**	1700			**3**	1200	**2**	1700	**2**	1200			**3**	1700			**3**	1200	**2**	1700	**2**	1200			15
C04061	**3**	90			**3**	80	**2**	90	**2**	80			**3**	90			**3**	80	**2**	90	**2**	80			15
C04062	**3**	90			**3**	80	**2**	90	**2**	80			**3**	90			**3**	80	**2**	90	**2**	80			15
C05010		Y								N				Y								N			15
C05020		Y								N				Y								N			15
C05030		Y								N				Y								N			15
C05040		Y								N				Y								N			15
C05050		Y								N				Y								N			15
C05060	**3**	90			**3**	80	**2**	90	**2**	80			**3**	90			**3**	80	**2**	90	**2**	80			15
C05070	**3**	90			**3**	80	**2**	90	**2**	80			**3**	90			**3**	80	**2**	90	**2**	80			15
C06010		Y								N				Y								N			15
C06020		Y								N				Y								N			15
C06030		Y								N				Y								N			15
C06040		Y								N				Y								N			15
C06080	**3**	1000			**3**	-1000	**2**	1000	**2**	-1000			**3**	1000			**3**	-1000	**2**	1000	**2**	1000			15
C06112	**3**	1			**1**	0,9	**2**	1	**4**	0,90			**3**	1			**1**	0,9	**2**	1	**4**	0,90			15
C06122	**3**	1			**1**	0,9	**2**	1	**4**	0,90			**3**	1			**1**	0,9	**2**	1	**4**	0,90			15

Scoring criteria definition																								
CODE	**SCO2FP**	SC2FP	**SCO2FPsec**	SC2FPsec	**SCO1FP**	SC1FP	**SCO1FPsec**	SC1FPsec	**SCO0FP**	SC0FP	**SCO0FPsec**	SC0FPsec	**SCO2SP**	SC2SP	**SCO2SPsec**	SC2SPsec	**SCO1SP**	SC1SP	**SCO1SPsec**	SC1SPsec	**SCO0SP**	SC0SP	**SCO0SPsec**	SC0SPsec	TIME
C07010		Y								N				Y								N			15
C07020		Y								N				Y								N			15
C07040		Y								N				Y								N			15
C07050		Y								N				Y								N			15
C07070	**3**	80			**1**	50	**2**	80	**4**	50			**3**	80			**1**	50	**2**	80	**4**	50			15
C07080	**3**	80			**1**	50	**2**	80	**4**	50			**3**	80			**1**	50	**2**	80	**4**	50			15
C09010		Y								N				Y								N			15
C09021		Y								N				Y								N			15
C09022		Y								N				Y								N			15
C09023		Y								N				Y								N			15
C09024		Y								N				Y								N			15
C10011	**3**	0,1	**4**	0,7	**1**	0,7	**2**	3	**3**	3,0			**3**	0,1	**4**	0,7	**1**	0,7	**2**	3	**3**	3			15
C10012	**4**	1,5			**1**	1,5	**2**	2	**3**	2			**4**	1,5			**1**	1,5	**2**	2	**3**	2			15
C10020		Y								N				Y								N			15
C10040	**2**	-0,02			**3**	-0,02	**4**	0,02	**1**	0,02			**2**	-0,02			**3**	-0,02	**4**	0,02	**1**	0,02			15
C10050		Y								N				Y								N			15
C10060	**1**	0,02			**3**	-0,02	**4**	0,02	**2**	-0,02			**1**	0,02			**3**	-0,02	**4**	0,02	**2**	-0,02			15
D06010		Y								N				Y								N			15
M03020N	**3**	100			**3**	90	**2**	100	**2**	90			**3**	100			**3**	90	**2**	100	**2**	90			15
M03020R	**3**	100			**3**	90	**2**	100	**2**	90			**3**	100			**3**	90	**2**	100	**2**	90			15
M03032N	**1**	500			**3**	200	**4**	500	**2**	200			**1**	500			**3**	200	**4**	500	**2**	200			15
M03032R	**1**	500			**3**	200	**4**	500	**2**	200			**1**	500			**3**	200	**4**	500	**2**	200			15
M03033N	**3**	75	**4**	125	**3**	40	**2**	75	**2**	40	**1**	125	**3**	75	**4**	125	**3**	40	**2**	75	**2**	40	**1**	125	15
M03033R	**3**	75	**4**	125	**3**	40	**2**	75	**2**	40	**1**	125	**3**	75	**4**	125	**3**	40	**2**	75	**2**	40	**1**	125	15
M03040N	**3**	100			**3**	90	**2**	100	**2**	90			**3**	100			**3**	90	**2**	100	**2**	90			15
M03040R	**3**	100			**3**	90	**2**	100	**2**	90			**3**	100			**3**	90	**2**	100	**2**	90			15
M03050N	**3**	100			**3**	90	**2**	100	**2**	90			**3**	100			**3**	90	**2**	100	**2**	90			15
M03050R	**3**	100			**3**	90	**2**	100	**2**	90			**3**	100			**3**	90	**2**	100	**2**	90			15

Scoring criteria definition																								
CODE	SCO2FP	SC2FP	SCO2FPsec	SC2FPsec	SCO1FP	SC1FP	SCO1FPsec	SC1FPsec	SCO0FP	SC0FP	SCO0FPsec	SC0FPsec	SCO2SP	SC2SP	SCO2SPsec	SC2SPsec	SCO1SP	SC1SP	SCO1SPsec	SC1SPsec	SCO0SP	SC0SP	SCO0SPsec	SC0SPsec	TIME
M03063	3	1000			3	500	2	1000	2	500			3	1000			3	500	2	1000	2	500			15
M03064	3	5000000			3	3000000	2	5000000	2	3000000			3	5000000			3	3000000	2	5000000	2	3000000			15
M05080N	2	90			3	90	2	100	3	100			2	90			3	90	2	100	3	100			15
M05080R	2	90			3	90	2	100	3	100			2	90			3	90	2	100	3	100			15
M05090	2	35			3	35	4	65	1	65			2	35			3	35	4	65	1	65			15
N01010	3	80			3	60	2	80	2	60			3	80			3	60	2	80	2	60			15
N01020	3	80			3	60	2	80	2	60			3	80			3	60	2	80	2	60			15
N01030	3	80			3	60	2	80	2	60			3	80			3	60	2	80	2	60			15
N01040	3	80			3	60	2	80	2	60			3	80			3	60	2	80	2	60			15
N01050	3	80			3	60	2	80	2	60			3	80			3	60	2	80	2	60			15
N01060	3	80			3	60	2	80	2	60			3	80			3	60	2	80	2	60			15
N02040	3	90			3	70	2	90	2	70			3	90			3	70	2	90	2	70			15
N02060	3	90			3	70	2	90	2	70			3	90			3	70	2	90	2	70			15
N03022	3	2			3	1	2	2	2	1			3	2			3	1	2	2	2	1			15
N03023	3	2			3	1	2	2	2	1			3	2			3	1	2	2	2	1			15
N03031	3	90			3	80	2	90	2	80			3	90			3	80	2	90	2	80			15
N03032	3	90			3	80	2	90	2	80			3	90			3	80	2	90	2	80			15
N03042													3	10			3	5	2	10	2	5			0
N04030	3	90			3	70	2	90	2	70			3	90			3	70	2	90	2	70			15
N04042													3	3			3	2	2	3	2	2			0
N04050													3	90			3	70	2	90	2	70			0
N05030	3	90			3	75	2	90	2	75			3	90			3	75	2	90	2	75			15
N05042													1	2				2			2	2			0
N05050	3	90			3	75	2	90	2	75			3	90			3	75	2	90	2	75			15
N05062													3	90			3	75	2	90	2	75			0
N06030	3	90			3	80	2	90	2	70			3	90			3	70	2	90	2	70			15
N06040	3	90			3	70	2	90	2	70			3	90			3	70	2	90	2	70			15

Scoring criteria definition																								
CODE	**SCO2FP**	SC2FP	**SCO2FPsec**	SC2FPsec	**SCO1FP**	SC1FP	**SCO1FPsec**	SC1FPsec	**SCO0FP**	SC0FP	**SCO0FPsec**	SC0FPsec	**SCO2SP**	SC2SP	**SCO2SPsec**	SC2SPsec	**SCO1SP**	SC1SP	**SCO1SPsec**	SC1SPsec	**SCO0SP**	SC0SP	**SCO0SPsec**	SC0SPsec	TIME
N07012	**3**	80			**3**	50	**2**	80	**2**	50			**3**	80			**3**	50	**2**	80	**2**	50			15
N07022	**3**	80			**3**	50	**2**	80	**2**	50			**3**	80			**3**	50	**2**	80	**2**	50			15
N08030	**3**	90			**3**	75	**2**	90	**2**	75			**3**	90			**3**	75	**2**	90	**2**	75			15
N09020	**3**	90			**3**	50	**2**	90	**2**	50			**3**	90			**3**	50	**2**	90	**2**	50			15
N09040	**3**	80			**3**	60	**2**	80	**2**	60			**3**	80			**3**	60	**2**	80	**2**	60			15
N09055													**3**	90			**3**	60	**2**	90	**2**	60			0
P02010	**3**	90			**3**	80	**2**	90	**2**	80			**3**	90			**3**	80	**2**	90	**2**	80			15
P02030	**3**	50			**3**	30	**2**	50	**2**	30			**3**	50			**3**	30	**2**	50	**2**	30			15
P02040	**3**	90			**3**	70	**2**	90	**2**	70			**3**	90			**3**	70	**2**	90	**2**	70			15
P02060	**3**	80			**1**	60	**2**	80	**4**	60			**3**	80			**1**	60	**2**	80	**4**	60			15
P03023	**3**	80			**3**	50	**2**	80	**2**	50			**3**	80			**3**	50	**2**	80	**2**	50			15
P03042	**3**	80			**3**	50	**2**	80	**2**	50			**3**	80			**3**	50	**2**	80	**2**	50			15
P03052	**3**	0,7			**3**	0,5	**2**	0,7	**2**	0,5			**3**	0,7			**3**	0,5	**2**	0,7	**2**	0,5			15
P03060	**3**	0,8			**3**	0,6	**2**	0,8	**2**	0,6			**3**	0,8			**3**	0,6	**2**	0,8	**2**	0,6			15
P03072	**3**	80			**3**	50	**2**	80	**2**	50			**3**	80			**3**	50	**2**	80	**2**	50			15
P03081	**3**	2			**3**	1,5	**2**	2	**2**	1,5			**3**	2			**3**	1,5	**2**	2	**2**	1,5			15
P04010	**3**	1			**3**	0,5	**2**	1	**2**	0,5			**3**	1			**3**	0,5	**2**	1	**2**	0,5			15
P04020	**2**	0,1			**3**	0,1	**2**	0,5	**3**	0,5			**2**	0,1			**3**	0,1	**2**	0,5	**3**	0,5			15
P04030	**3**	0,8			**3**	0,6	**2**	0,8	**2**	0,6			**3**	0,8			**3**	0,6	**2**	0,8	**2**	0,6			15
P04040	**3**	0,90			**3**	0,80	**2**	0,9	**2**	0,80			**3**	0,9			**3**	0,8	**2**	0,9	**2**	0,8			15
P04050	**3**	0,90			**3**	0,80	**2**	0,9	**2**	0,80			**3**	0,9			**3**	0,8	**2**	0,9	**2**	0,8			15
P05080	**3**	90			**3**	80	**2**	90	**2**	80			**3**	90			**3**	80	**2**	90	**2**	80			15
P06050	**4**	1			**1**	1	**2**	1,15	**3**	1,15			**4**	1			**1**	1	**2**	1,15	**3**	1,15			15
P06060	**4**	1			**1**	1	**2**	1,15	**3**	1,15			**4**	1			**1**	1	**2**	1,15	**3**	1,15			15
P06070	**4**	1			**1**	1	**2**	1,1	**3**	1,15			**4**	1			**1**	1	**2**	1,15	**3**	1,15			15
P06091	**4**	20			**1**	20	**2**	50	**3**	50			**4**	20			**1**	20	**2**	50	**3**	50			15
P06092	**4**	1			**1**	1	**2**	1,1	**3**	1,15			**4**	1			**1**	1	**2**	1,15	**3**	1,15			15
P06100	**4**	1			**1**	1	**2**	1,15	**3**	1,15			**4**	1			**1**	1	**2**	1,15	**3**	1,15			15

Scoring criteria definition																								
CODE	SCO2FP	SC2FP	SCO2FPsec	SC2FPsec	SCO1FP	SC1FP	SCO1FPsec	SC1FPsec	SCO0FP	SC0FP	SCO0FPsec	SC0FPsec	SCO2SP	SC2SP	SCO2SPsec	SC2SPsec	SCO1SP	SC1SP	SCO1SPsec	SC1SPsec	SCO0SP	SC0SP	SCO0SPsec	SC0SPsec	TIME
P06140	3	0,8			1	0,6	2	0,8	4	0,6			3	0,8			1	0,6	2	0,8	4	0,6			15
P06150	4	20			1	20	2	40	3	40			4	20			1	20	2	40	3	40			15
P06160	3	100			1	70	2	100	4	70			3	100			1	70	2	100	4	70			15
P07030	3	10			1	5	2	10	4	5			3	10			1	5	2	10	4	5			15
P07060	3	80			1	50	2	80	4	50			3	80			1	50	2	80	4	50			15
P08010	3	80			1	50	2	80	4	50			3	80			1	50	2	80	4	50			15
P08020	3	80			1	50	2	80	4	50			3	80			1	50	2	80	4	50			15
P08030	3	1			1	0,9	2	1	4	0,9			3	1			1	0,9	2	1	4	0,9			15
P08040	3	1			1	0,9	2	1	4	0,9			3	2			1	0,9	2	1	4	0,9			15
P08052	3	1			1	0,9	2	1	4	0,9			3	1			1	0,9	2	1	4	0,9			15
P09030	3	80			1	50	2	80	4	50			3	80			1	50	2	80	4	50			15
R04020	3	5000			3	1000	2	5000	2	1000			3	5000			3	1000	2	5000	2	1000			15
R04030	3	0,3			3	0,05	2	0,3	2	0,05			3	0,3			3	0,05	2	0,3	2	0,05			15
R04040	3	50			3	20	2	50	2	20			3	50			3	20	2	50	2	20			15
R04050	3	120			3	100	2	120	2	100			3	120			3	100	2	120	2	100			15
R05010	4	90			1	90	2	100	3	100			4	90			1	90	2	100	3	100			15
R05020	4	90			1	90	2	100	3	100			4	90			1	90	2	100	3	100			15
R06020	3	100			3	90	2	100	2	90			3	100			3	90	2	100	2	90			15
R07010													4	85			1	85	2	95	3	95			0
R08010													3	120			2	120	1	100	4	100			0
R09012													1	150			2	150	1	110	2	110			0
R09022													3	300			3	150	2	300	2	150			0
T00011	3	80			3	50	2	80	2	50			3	80			3	50	2	80	2	50			15
T00012	3	80			3	50	2	80	2	50			3	80			3	50	2	80	2	50			15
T00013	3	0,7			3	0,50	2	0,7	2	0,50			3	0,7			3	0,5	2	0,7	2	0,5			15
T00014	3	0,95			3	0,80	2	0,95	2	0,80			3	0,95			3	0,8	2	0,95	2	0,8			15
T00015	3	2,5			3	1,5	2	2,5	2	1,5			3	2,5			3	1,5	2	2,5	2	1,5			15
T00021	3	1			1	0,9	2	1	4	0,90			3	1			1	0,9	2	1	4	0,90			15

Scoring criteria definition																								
CODE	**SCO2FP**	SC2FP	**SCO2FPsec**	SC2FPsec	**SCO1FP**	SC1FP	**SCO1FPsec**	SC1FPsec	**SCO0FP**	SC0FP	**SCO0FPsec**	SC0FPsec	**SCO2SP**	SC2SP	**SCO2SPsec**	SC2SPsec	**SCO1SP**	SC1SP	**SCO1SPsec**	SC1SPsec	**SCO0SP**	SC0SP	**SCO0SPsec**	SC0SPsec	TIME
T00022	**3**	1			**1**	0,9	**2**	1	**4**	0,90			**3**	1			**1**	0,9	**2**	1	**4**	0,90			15
T00023	**3**	100			**1**	70	**2**	100	**4**	70			**3**	100			**1**	70	**2**	100	**4**	70			15
T00024	**3**	0,8			**1**	0,6	**2**	0,8	**4**	0,6			**3**	0,8			**1**	0,6	**2**	0,8	**4**	0,6			15
T00025	**3**	40			**1**	20	**2**	40	**4**	20			**3**	40			**1**	20	**2**	40	**4**	20			15
T00031	**3**	80			**1**	50	**2**	80	**4**	50			**3**	80			**1**	50	**2**	80	**4**	50			15

Field codification										
	Operator *	Value	first criteria	second criteria	first period	second period	2 PT SCORE	1 PT SCORE	0 PT SCORE	Description
SCO2FP	**X**		**X**		**X**		**X**			**Operator for first score criteria, for 2 point, in the first period**
SC2FP		**X**	X		X		X			**Value for first score criteria, for 2 point, in the first period**
SCO2FPsec	**X**			**X**	**X**		**X**			**Operator for second score criteria, for 2 point, in the first period**
SC2FPsec		**X**		X	X		X			**Value for second score criteria, for 2 point, in the first period**
SCO1FP	**X**		**X**		**X**			**X**		**Operator for first score criteria, for 1 point, in the first period**
SC1FP		**X**	X		X			X		**Value for first score criteria, for 1 point, in the first period**
SCO1FPsec	**X**			**X**	**X**			**X**		**Operator for second score criteria, for 1 point, in the first period**
SC1FPsec		**X**		X	X			X		**Value for second score criteria, for 1 point, in the first period**
SCO0FP	**X**		**X**		**X**				**X**	**Operator for first score criteria, for 0 point, in the first period**
SC0FP		**X**	X		X				X	**Value for first score criteria, for 0 point, in the first period**
SCO0FPsec	**X**			**X**	**X**				**X**	**Operator for second score criteria, for 0 point, in the first period**
SC0FPsec		**X**		X	X				X	**Value for second score criteria, for 0 point, in the first period**
SCO2SP	**X**		**X**			**X**	**X**			**Operator for first score criteria, for 2 point, in the second period**
SC2SP		**X**	X			X	X			**Value for first score criteria, for 2 point, in the second period**
SCO2SPsec	**X**			**X**		**X**	**X**			**Operator for second score criteria, for 2 point, in the second period**
SC2SPsec		**X**		X		X	X			**Value for second score criteria, for 2 point, in the second period**
SCO1SP	**X**		**X**			**X**		**X**		**Operator for first score criteria, for 1 point, in the second period**
SC1SP		**X**	X			X		X		**Value for first score criteria, for 1 point, in the second period**
SCO1SPsec	**X**			**X**		**X**		**X**		**Operator for second score criteria, for 1 point, in the second period**
SC1SPsec		**X**		X		X		X		**Value for second score criteria, for 1 point, in the second period**
SCO0SP	**X**		**X**			**X**			**X**	**Operator for first score criteria, for 0 point, in the second period**
SC0SP		**X**	X			X			X	**Value for first score criteria, for 0 point, in the second period**
SCO0SPsec	**X**			**X**		**X**			**X**	**Operator for second score criteria, for 0 point, in the second period**
SC0SPsec		**X**		X		X			X	**Value for second score criteria, for 0 point, in the second period**

* Note: The operator's fileds are codified as follow:
1 = ">" 2 = "<" 3 = ">=" 4 = "<=" Null value for Logic and Qualitative indicators is considered as "="

ID	CODE	DEF_EN	ShDEF_EN
1	A01010	Existence of a government statement declaring the PIM/IMT program a national priority. "A government statement about PIM/IMT is a formal document where the objectives and justification of the programme are described but also other information regarding the scope and the policies to be implemented"	Existence of a government statement declaring the PIM/IMT program a national priority
2	A02010N	A coordination mechanism has been established "A Coordination Mechanism refers to any institutional set up i.e. steering committee , working group, special commission, task force, etc., where the concerned governmental stakeholders share information and propose actions regarding the PIM/IMT process. The steering committee may consist of for example the Irrigation agency, the Ministry of Finance, the implicated Donors if needed, and the Cooperative Ministry, or any Ministry responsible for registering the WUA, etc."	A coordination mechanism has been established
3	A02010R	A coordination mechanism has been established "A Coordination Mechanism refers to any institutional set up i.e. steering committee , working group, special commission, task force, etc., where the concerned governmental stakeholders share information and propose actions regarding the PIM/IMT process. The steering committee may consist of for example the Irrigation agency, the Ministry of Finance, the implicated Donors if needed, and the Cooperative Ministry, or any Ministry responsible for registering the WUA, etc."	A coordination mechanism has been established
4	A02020N	Degree of effectiveness of coordination among the institutions participating in PIM/IMT program. "Coordination is effective when all participating institutions carry out their responsibilities as agreed in the Coordination Mechanism."	Degree of effectiveness of coordination among the institutions participating in PIM/IMT program
5	A02020R	Degree of effectiveness of coordination among the institutions participating in PIM/IMT program at the regional level. "Coordination is effective when all participating institutions carry out their responsibilities as agreed in the Coordination Mechanism."	Degree of effectiveness of coordination among the institutions participating in PIM/IMT program at the regional level.
6	A02030N	Roles and responsibilities of the actors involved are clearly defined with respect to PIM/IMT. "Clear roles and responsibilities of the actors refer to clear documentation of the roles and responsibilities of all the members of the Coordination Mechanisms who also know their responsibilities and actions to be taken"	Roles and responsibilities of the actors involved are clearly defined with respect to PIM/IMT
7	A02030R	Roles and responsibilities of the actors involved are clearly defined with respect to PIM/IMT. "Clear roles and responsibilities of the actors refer to clear documentation of the roles and responsibilities of all the members of the Coordination Mechanisms who also know their responsibilities and actions to be taken"	Roles and responsibilities of the actors involved are clearly defined with respect to PIM/IMT
8	A03010	A national PIM/IMT plan with financial and human resources is allocated. "A national PIM/IMT plan is a planning document covering a period of several years (normally 5-10) including: objectives and justification, organizational structure for the implementation of the program, stakeholders participation, key issues to be resolved, time frame and needed financial and human resources."	A national PIM/IMT plan with financial and human resources is allocated
9	A03021N	Annual amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT during last year. This represents the amount of money allocated for the government personnel dedicated for the pim/imt, transport, equipt (PCs, tel. fax, etc..). It does not Include the financial allocation for rehabilitation and improvement.	Annual amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT during last year

10	A03021R	Annual amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT during last year. This represents the amount of money allocated for the government personnel dedicated for the pim/imt, transport, equipt (PCs, tel. fax, etc..). It does not Include the financial allocation for rehabilitation and improvement.	Annual amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT during last year
11	M03020N	Percentage of the annual budget allocated by the irrigation agency for the PIM/IMT programme last year with respect to the budget of two years ago	Percentage of the annual budget allocated to the irrigation agency for the PIM/IMT programme with respect to the budget two years ago
12	M03020R	Percentage of the annual budget allocated by the irrigation agency for the PIM/IMT programme last year with respect to the budget of two years ago	Percentage of the annual budget allocated to the irrigation agency for the PIM/IMT programme with respect to the budget two years ago
13	A03031N	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to a Reference Year (RY) This represents the amount of money allocated for the government personnel dedicated for the PIM/IMT, transport, equipment (PCs, tel. fax, etc..). up to the reference year. It does not Include the financial allocation for rehabilitation and improvement. This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note: this data is entered once at the beginning (when data entry for the first year takes place)	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to a Reference Year (RY)
14	A03031R	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to a Reference Year (RY) This represents the amount of money allocated for the government personnel dedicated for the PIM/IMT, transport, equipment (PCs, tel. fax, etc..). up to the reference year. It does not Include the financial allocation for rehabilitation and improvement. This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note: this data is entered once at the beginning (when data entry for the first year takes place)	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to a Reference Year (RY)

15	M03031N	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to last year.	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to last year.
16	M03031R	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to last year.	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT up to last year.
17	M03032N	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total irrigable area tranferred (up to last year).	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total area tranferred (also up to last year).
18	M03032R	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total irrigable area tranferred (also up to last year).	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total area tranferred (also up to last year).
19	M03033N	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total area tranferred (also up to last year).	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total area tranferred (also up to last year).
20	M03033R	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total area tranferred (also up to last year).	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMTup to last year with respect to the total area tranferred (also up to last year).
21	A03041N	Number of government officers who worked full time for the PIM/IMT programme last year. Normally this number coincides with the number of those working in the Support Units. "A Support Unit is a generic denomination for the staff that work in the Irrigation agency and are fully dedicated to support the PIM/IMT program". If officers were working less than full time, estimate the total number of days/month they worked and divide it by 220/10 working days/month to get the no. of people who worked full time. If there is a fraction, round it according to the rounding rules.	Number of government officers who worked full time for the PIM/IMT programme last year.
22	A03041R	Number of government officers who worked full time for the PIM/IMT programme last year. Normally this number coincides with the number of those working in the Support Units. "A Support Unit is a generic denomination for the staff that work in the Irrigation agency and are fully dedicated to support the PIM/IMT program". If officers were working less than full time, estimate the total number of days/month they worked and divide it by 220/10 working days/month to get the no. of people who worked full time. If there is a fraction, round it according to the rounding rules.	Number of government officers who worked full time for the PIM/IMT programme last year.
23	M03040N	Percentage of the total human resources allocated in the headquarter of the irrigation agency to the PIM/IMT programme last year with respect to two years ago.	Percentage of the total human resources allocated by the irrigation agency to the PIM/IMT programme in last year with respect to two years ago

24	M03040R	Percentage of the total human resources allocated in the regional office of the irrigation agency to the PIM/IMT programme last year with respect to two years ago.	Percentage of the total human resources allocated by the irrigation agency to the PIM/IMT programme in last year with respect to two years ago
25	A03051N	Annual financial allocation for the rehabilitation and/or improvement of the irrigation systems to be handed over to WUAS and refers to last year data	Annual financial allocation for the rehabilitation and/or improvement of the irrigation systems to be handed over to WUAS and refers to last year data
26	A03051R	Annual financial allocation for the rehabilitation and/or improvement of the irrigation systems to be handed over to WUAS and refers to last year data	Annual financial allocation for the rehabilitation and/or improvement of the irrigation systems to be handed over to WUAS and refers to last year data
27	M03050N	Percentage of the annual financial allocation for the rehabilitation or improvement of transferred irrigation systems last year with respect to 2 years ago	Percentage of the annual financial allocation for the rehabilitation or improvement of transferred irrigation systems last year with respect to 2 years ago
28	M03050R	Percentage of the annual financial allocation for the rehabilitation or improvement of transferred irrigation systems last year with respect to 2 years ago	Percentage of the annual financial allocation for the rehabilitation or improvement of transferred irrigation systems last year with respect to 2 years ago
29	A03061	Cumulative financial allocations for the rehabilitation and/or improvement of the irrigation systems to be transferred up to the Reference Year (RY) This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note: this data is entered once at the beginning (when data entry for the first year takes place)	Cumulative financial allocations for the rehabilitation and/or improvement of the irrigation systems to be transferred up to the Reference Year
30	M03062	Cumulative financial allocation for the rehabilitation and/or improvement of the irrigation systems handed over to WUAS up to last year.	Cumulative financial allocation for the rehabilitation and/or improvement of the irrigation systems handed over to WUAS up to last year.
31	M03063	Cumulative financial allocations for the rehabilitation and/or improvement of the irrigation systems per 1000 hectares of irrigable area transferred up to last year.	Cumulative financial allocations for the rehabilitation and/or improvement of the irrigation systems per 1000 hectares of irrigable area transferred up to last year.
32	M03064	Cumulative financial allocations for the rehabilitation and/or improvement of the irrigation systems per 1000 hectares of irrigable area transferred up to last year.	Cumulative financial allocations for the rehabilitation and/or improvement of the irrigation systems per 1000 hectares of irrigable area transferred up to last year.

33	A04010	The legal framework was assessed/revised during the implementation period to ensure its suitability for the legal establishment of the WUAs	Existing legal framework assesed for suitabilty versus WUAs establishement
34	A04011	The existing water legislation is considered sufficient for the establishment and effective functioning of the WUA. "This refers to the legislations regulating the water resources use and management".	The existing water legislation is considered sufficient/ insufficient for the establishment and effective functioning of the WUA
35	A04012	There is a specific plan for creating or amending exisiting legislation to provide for more autonomy and legal recognition of the WUAs. "The question checks the government intention with regard to the possibility of changing the water legislation to provide a more suitable framework for WUAs"	There are specific plans for creating or amending existing legislation
36	A04013	The WUAS are established under the cooperative law without changing the exisitng water legislation "Some WUAs are established under the cooperative law and perform marketing and training activities as well which may not be of the interest to all farmers of the irrigation system.	WUAs established under cooperatives law
37	A04021	Legal revisions have been introduced in order to improve the performance of WUAs	Legislative revisions introduced to improve the performance of WUAs
38	A04022	legal revisions have been introduced in order to improve the performance of the PIM/IMT program implementation	Legislative revisions introduced to improve the performance ofPIM/IMT implementation
39	A04023	Impacts of introduced Legal revisions are assessed	Impacts of introduced revisions assessed
40	A04024	The function/s of the WUAs have been specified by a dedicated legislation regarding the WUAs. "The normal functions of the WUAS include: operation, maintenance, administration and management. The question checks if one or more of these functions have been specified by the appropriate agreements and/or legal instruments"	The function/s of the WUAs have been specified by a dedicated legislation regarding the WUAs
41	A04025	The legal rights of the WUAs have been specified by a dedicated legislation regarding the WUAs. "Normally there is a dedicated legislation regarding the WUAs which defines the legal rights of the association"	Legal rights of the WUAs have been specified by a dedicated legislation regarding the WUAs
42	A04026	The legal rights of the water users within the WUAs have been specified by a dedicated legislation regarding the WUAs. "Normally there is a dedicated legislation regarding the WUAs which specifies the legal rights of the members the WUA	Legal rights of the water users within the WUAs have been specified by a dedicated legislation regarding the WUAs
43	A04027	The dedicated legislation regarding the WUAs recognizes the different types of associations that can be established. "Several farmers organizations can be entrusted with the management of the water. The question tries to asses if these different types have been considered in the dedicated law regarding the WUAs.	The dedicated legislation regarding the WUAs recognizes the different types of associations that can be established
44	A05010	The government enacted a policy to reorient the mandate of the irrigation agency. "Reforming irrigation agencies do not require generally changing the law. Functions of irrigation agencies can be changed through ministerial deccrees. This question checks if the government has changed the mandate of the irrigation agency as result of the PIM/IMT program"	The government enacted a policy to reorient the mandate of the irrigation agency
45	A05020	New roles have been given to the irrigation agency, as a result of the PIM/IMT program "The transfer of responsibilities to WUAS normally implies that the management responsibilities of the Irrigation agency decrease while those for implementation and monitoring and evaluation increase . The question checks if this has been the case"	New roles have been given to the irrigation agency, as a result of the PIM/IMT program
46	A05030	The roles of planning, implementation and M&E of the PIM/IMT program have been added to the irrigation agency	Planning, implementation and M&E of the PIM/IMT program are recognised as part of the new roles for the irrigation agency
47	A05040	The roles of promotion, training, field support and M&E of WUAs have been added to the irrigation agency.	Promotion, training, field support and M&E of WUAsare recognised as part of the new roles for the irrigation agency
48	A05050	The roles of administrative and technical auditing of WUAs have been added to the irrigation agency	Administrative and technical auditing of WUAs are recognised as part of the new roles for the irrigation agency

49	A05060	The role of the coordination of the PIM/IMT has been added to the irrigation agency	The role of the coordination of PIM/IMT is recognised as part of the new roles for the irrigation agency
50	A05070	Administrative measures to decrease staff previously dedicated to O&M have been undertaken by the irrigation agency. "This question checks if the irrigation agency has taken administrative measures like: advanced retirement, relocation of staff, etc to reduce the number of staff that was dedicated to the management of the irrigation systems before these responsibilities were transferred to WUAs"	Administrative measures to decrease staff previously dedicated to O&M have been undertaken by the irrigation agency
51	A05081N	Number of staff working in the Irrigation Agency (central office) fully dedicated to the O&M of the irrigation systems during last year. If officers are working less than full time, estimate the total number of days/month they worked and divide it by 220/10. working days/month, This should give the no. of people who worked full time. If there is a fraction, round it according to the rounding rules	Number of staff working in the Irrigation Agency fully dedicated to the O&M of the irrigation systems during last year
52	A05081R	Number of staff working in the Irrigation Agency regional office(s) fully dedicated to the O&M of the irrigation systems during last year. If officers are working less than full time, estimate the total number of days/month they worked and divide it by 220/10. working days/month, This should give the no. of people who worked full time. If there is a fraction, round it according to the rounding rules	Number of staff working in the Irrigation Agency fully dedicated to the O&M of the irrigation systems during last year
53	M05080N	Percentage decrease in the number of the irrigation agency (central office) staff dedicated to O&M last year with respect to two years ago	Percentage of the number of irrigation agency staff dedicated to O&M last year with respect to two years ago
54	M05080R	Percentage decrease in the number of the staff in the regional office(s) of the irrigation agency dedicated to O&M last year with respect to two years ago	Percentage of the number of irrigation agency staff dedicated to O&M last year with respect to two years ago
55	A05091N	Number of staff working in the Irrigation Agency (central office) fully dedicated to the O&M of the irrigation system at the starting date of the PIM/IMT	Number of staff working in the Irrigation Agency (central office) fully dedicated to the O&M of the irrigation system at the starting date of the PIM/IMT
56	A05091R	Number of staff working in the Irrigation Agency of the staff in the regional office(s) fully dedicated to the O&M of the irrigation system at the starting date of the PIM/IMT	Number of staff working in the Irrigation Agency of the staff in the regional office(s) fully dedicated to the O&M of the irrigation system at the starting date of the PIM/IMT
57	M05090	Percentage of decrease in the irrigation agency staff dedicated to O&M last year with respect to the starting date of the PIM/IMT. Note:This indicator is evaluated only at the end of PIM/IMT program (i.e.) if the actual completion date = last year and if no postponmet to the propram has been made. In the latter the revised year of completion should be compared with last year, and accordingly the indicator appears for evaluation. Note: After the completion of the transfer, if the number of staff became less than 35% compared to the initial situation, this indicates very good performance. More than 65% is considered as poor performance. These tresholds could be reviewed later.	Percentage decrease in the number of irrigation agency staff dedicated to O&M at the end of the PIM/IMT compared to the benning
58	A05100	The strategy to be followed in the implementation of the PIM/IMT plan is clearly stated	The strategy to be followed is clearly stated and available
59	A05110	Irrigation schemes are transferred progressively; with due consideration to relevant technical and socioeconomical criterias	Irrigation schemes are progressively transferred with due consideration to relevant technical and socioeconomical criteria
60	A05120	The strategy foresees that WUAs will take full managment responsibility of their irrigation system at end of the PIM/IMT progrm	The strategy foresees that WUAs will take full managment responsibility of their irrigation system at end of the PIM/IMT progrm
61	B01011	Actual Cumulative (irrigable) Area Covered by WUAs under the Participatory Irrigation Management Model up to last year, whereby irrigation management tasks are joinly carried out by the WUAs (that are formally established) and the irrigation agency in a participatory manner.	Actual Cumulative (irrigable) Area Covered by WUAs under the Participatory Irrigation Management Model

62	B01012	Actual Cumulative Area (irrigable) Planned to be Covered by the WUAs up to last year under the Participatory Irrigation Management Model, whereby irrigation management tasks are joinly carried out by the WUAs (that are formally established) and the irrigation agency in a participatory manner. Note: Sometimes the target irrigable cumulative area planned to be covered by the PIM refers to a period of several years (3-5). In that case it will be necessary to divide the target irrigable cumulative area planned to operate under PIM at the end of the planning period by the number of years considered in the planning period in order to have the Annual Cumulative Target Area.	Actual Cumulative Area (irrigable) Planned to be Covered by the WUAs up to last year under the Participatory Irrigation Management Model
63	N01010	Percentage of the Cumulative Areas (irrigable) Actually Covered by WUAs under the the Participatory Irrigation Management Model up to last year of the PIM/IMT program with respect to the Planned cumulative area.	Percentage of the Cumulative Area Actually covered by WUAs under the PIM Model up to last year of the PIM/IMT program with respect to the planned areas
64	B01021	Cumulative Actual Area (irrigable) Handed over to WUAs under the Irrigation Management Transfer Model up to last year, whereby irrigation management tasks are transferred to the WUAs (that are formally established) through a signed irrigation management tranfer agreement.	Cumulative Actual Area (irrigable) Handed over to WUAs under the Irrigation Management Transfer Mode
65	B01022	Cumulative Area (irrigable) Planned to be Handed over to WUAs under the Irrigation Management Transfer Model up to last year, whereby irrigation management tasks are transferred to the WUAs (that are formally established) through a signed irrigation management tranfer agreement. Note: Sometimes the target irrigable cumulative area planned to be covered by the IMT refers to a period of several years (3-5). In that case it will be necessary to divide the target irrigable cumulative area planned to operate under IMT at the end of the planning period by the number of years considered in the planning period in order to have the Annual Cumulative Target Area.	Cumulative Area (irrigable) Planned to be handed over to WUAs under the Irrigation Management Transfer Model up to last year
66	N01020	Percentage of the Cumulative Area Actually Handed over to WUAs under the IMT Model up to last year of the PIM/IMT program with respect to the Planned cumulative areas	Percentage of the Cumulative Area Actually Handed over to WUAs under the IMT Model up to last year of the PIM/IMT program with respect to the planned areas
67	N01030	Percentage of the Cumulative Area Actually Covered by WUAs under the PIM & IMT Models up to last year of the PIM/IMT program with respect to the Planned cumulative area	Percentage of the Cumulative Area Actually covered by WUAs under the PIM & IMT Models up to last year of the PIM/IMT program with respect to the planned areas
68	B01041	Cumulative Number of WUAs actually Established under the PIM model up to last year. Whereby the WUA is formally established (Committees elected) but irrigation management tasks are jointly carried out with the irrigation agency in a participatory manner	Cumulative Number of the WUAs to which the irrigation management tasks have been actually Handed over up to last year
69	B01042	Cumulative Number of WUAs Planned to be Established under the PIM model up to last year. Whereby the WUA is formally established (Committees elected) but irrigation management tasks are jointly carried out with the irrigation agency in a participatory manner	Cumulative Number of the WUAs to which the irrigation management tasks have been planned to be established up to last year
70	N01040	Percentage Change in the Cumulative Number of WUAs actually Established under the PIM model up to last year of the PIM/IMT program with respect to those planned	Percentage change in the number of WUAs Established under the PIM model
71	B01051	Cumulative Number of the WUAs to which the irrigation management tasks have been actually Handed over up to last year, (based on a "transfer agreement" signed with the Irrigation Agency establishing the tasks transferred)	Cumulative Number of the WUAs to which the irrigation management tasks have been actually Handed over up to last year
72	B01052	Cumulative Number of the WUAs to which the irrigation management tasks were planned to be Handed over up to last year, (based on a "transfer agreement" signed with the Irrigation Agency establishing the tasks transferred)	Cumulative Number of the WUAs to which the irrigation management tasks have been planned up to last year
73	N01050	Percentage of the cumulative Number of WUAs operating under IMT up to last year of the PIM/IMT Program with respect to those planned	Percentage change in the number of WUAs which are operating under IMT
74	N01060	Percentage of the cumulative Number of WUAs operating under PIM and IMT up tio last year of the PIM/IMT Program with respect to those planned	Percentage change in the number of WUAS operating under both PIM and IMT
75	B02010	No. of farmers to be reached by the awareness campaigns have been identified	No. of farmers to be reached by the awareness campaigns have been identified

76	B02020	The strategy/approach for communication and sentisiation was elaborated	Sensitization approach elaborated
77	B02030	Material for the awareness campaings has been produced. It refers to the existence of Information and Telecommunication (ITC) materials: presentations, videos , info documents, radio programs aimed to create awareness on the PIM/IMT program.	Material for the awareness campaings has been produced (videos, presentations, radio programs)
78	B02041	Number of Actual awareness meetings held with the farmers during last year	Number of Actual awareness meetings held with the farmers during last year
79	B02042	Number of awareness meetings Planned with the farmers during last year	Number of awareness meetings Planned with the farmers during last year
80	N02040	Percentage of the Number of Actual awareness meetings held with respect to those Planned during last year	Percentage of the number of awareness meetings held with respect to those planned during last year
81	B02050	Roles and resposnibilities of users specified as well as those of other actors	Roles and resposnibilities of users specified as needed
82	B02061	Number of Farmers participating in Awareness Events last year.	Number of Farmers participating in Awareness Events last year.
83	B02062	Number of Farmers targeted to participate in Awareness Events last year.	Number of Farmers targeted to participate in Awareness Events last year.
84	N02060	Percentage Number of Farmers Participating in awareness events with respect to those Targeted during the last year	Percentage of farmers who participated in awareness events with respect to the total of targeted farmers during the last year
85	B02070	Water Users involved in preparation of the PIM/IMT program.	Water Users involved in preparation of the PIM/IMT program
86	B02080	Mid- terms reviews were carried out to assess relevance and effectiveness of approaches and materials used in the implementation of the PIM/IMT program	Mid- terms reviews to assess relevance and effectiveness of approaches and materials used in the implementation of the PIM/IMT program have been carried out.
87	B02090	Approaches and materials used in the implementation of the PIM/IMT program were improved based on the mid-terms reviews of their relevance and effectiveness in the sensistisation of users	Approaches and materials used in the implementation of the PIM/IMT program have beenmodified based on the mid term reviews.
88	B03010	Support Units have been formally established "Support Unit is a generic denomination for the staff that work in the Irrigation agency and fully dedicated to support the PIM/IMT program."	Support Units have been formally established.
89	B03020	Roles and resposnibilities of the WUAs support unit have been specified as well as the respective tasks of their members	Roles and resposnibilities of the WUAs support unit have been specified as well as the respective tasks of their members
90	B03021N	Number of Government Staff at the Support Unit of the central offices fully dedicated to provide support to PIM/IMT program up to last year. For staff that is not working full time they should be converted to full time. Example: 4 persons working 1/2 time is equal to 2 persons full time. Note: Please enter the number of staff in the support unit that corresponds to the central level.	Number of Government Staff at the Support Unit fully dedicated to provide support to PIM/IMT program up to last year
91	B03021R	Number of Government Staff at the Support Units of the regional office fully dedicated to provide support to PIM/IMT program up to last year. For staff that is not working full time they should be converted to full time. Example: 4 persons working 1/2 time is equal to 2 persons full time. Note: Please enter the number of staff in the support unit that corresponds to the regional level. If the regional offices have also support units at the local level, the staff of these units should be added.	Number of Government Staff at the Support Unit fully dedicated to provide support to PIM/IMT program up to last year

92	N03022	Number of government staff actually dedicated at the Support Units to provide support to WUAs per every 5000 hectares of irrigable area transferred up to last year. For staff that is not working full time they should be converted to full time. Example: 4 persons working 1/2 time is equal to 2 persons full time. Note that the staff of the support units can be at the local level, at the regional and at the national level (at the headquarters of the irrigation agency)	Total number of government staff actually dedicated to provide support to WUAs per every 5000 hectares of irrigable area transferred.
93	N03023	Number of government staff actually dedicated at the Support Units to provide support to WUAs per every 5000 hectares of irrigable area transferred up to last year. For staff that is not working full time they should be converted to full time. Example: 4 persons working 1/2 time is equal to 2 persons full time. Note that the staff of the support units can be at the local level, at the regional and at the national level (at the headquarters of the irrigation agency)	Total number of government staff actually dedicated to provide support to WUAs per every 5000 hectares of irrigable area transferred.
94	B03031N	Number of Actual training days carried out for the staff of the Support Unit at central level during the last year Note: Please enter the number of training days for the staff in the support unit that corresponds to the central level.	Number of Actual training days carried out for the staff of the Support Unit at central level during the last year
95	B03031R	Number of Actual training days carried out for the staff of the Support Units at regional level during the last year Note: Please enter the number of training days for the staff in the support units that corresponds to the regional level. If the regional offices have also support units at the local level, the number of training days for the staff of these units should be added.	Number of Actual training days carried out for the staff of the Support Units at regional level during the last year
96	B03032N	Number of training days planned for the staff of the Support Unit at central level during the last year Note: Please enter the number of training days for the staff in the support unit that corresponds to the central level.	Number of training days planned for the staff of the Support Unit at central level during the last year
97	B03032R	Number of training days planned for the staff of the Support Units at regional level during the last year Note: Please enter the number of training days for the staff in the support unit that corresponds to the regional level. If the regional offices have also support units at the local level, the number of training days planned for the staff of these units should be added.	Number of training days planned for the staff of the Support Units at regional level during the last year
98	N03031	Percentage of the Number of the Actual Training Days carried out for the staff of the Support Units during the last year with respect to those Planned . Note that the staff of the support units can be at the local level, at the regional and at the national level (at the headquarters of the irrigation agency)	Percentage of the number of training days carried out for the staff of the Support Units during the last year with respect to those planned.
99	N03032	Percentage of the Number of the Actual Training Days carried out for the staff of the Support Units during the last year with respect to those Planned . Note that the staff of the support units can be at the local level, at the regional and at the national level (at the headquarters of the irrigation agency)	Percentage of the number of training days carried out for the staff of the Support Units during the last year with respect to those planned.

100	B03041N	Cumulative Number of Training Days Actually carried out for the staff of the Support Unit up to a Reference Year (RY) (AreaCumulative SU (RY)) at the central level. This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note: Please enter the number of training days for the staff in the support unit that corresponds to the central level. Note: this data is entered once at the beginning (when data entry for the first year takes place)	Cumulative Number of Training Days Actually carried out for the staff of the Support Unit up to a Reference Year
101	B03041R	Cumulative Number of Training Days Actually carried out for the staff of the Support Units up to a Reference Year (RY) (AreaCumulative SU (RY)) at regional level. This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note: Please enter the number of training days for the staff in the support units that corresponds to the regional level. If the regional offices have also support units at the local level, the number of training days actually carried out for the staff of these units should be added. Note: this data is entered once at the beginning (when data entry for the first year takes place)	Cumulative Number of Training Days Actually carried out for the staff of the Support Units up to a Reference Year
102	N03041	Actual Cumulative number of Training Days provided up to last year for the staff of the Support Units to enhance their capacities in the implementation of PIM/IMT program. Note that the staff of the support units can be trained at the local level and at the regional and national levels (at the headquarters of the irrigation agency)	Actual Cumulative number of Training Days provided up to last year for the staff of the Support Units to enhance their capacities in the implementation of PIM/IMT program.
103	N03042	Cumulative Number of Training Days provided during the implementation period of PIM/IM per Support Unit employee fully dedicated to provide support to the PIM/IMT program. Note: This indicator is evaluated only at the end of PIM/IMT program (i.e.) if the expected completion date = last year and if no postponmet to the propram has been made. In the latter the revised year of completion should be compared with last year, and accordingly the indicator appears for evaluation	Training Days Ratio per Support Unit employee.
104	B04010N	Training Needs Assessment (TNA) for the WUAs leaders and staff is available. "A TNA is a survey to assess the training needs: number of trainees, main subjects to be covered, number of courses to be carried out, etc."	Training needs assessment for the WUAs leaders and staff is available.

105	B04010R	Training Needs Assessment (TNA) for the WUAs leaders and staff is available. "A TNA is a survey to assess the training needs: number of trainees, main subjects to be covered, number of courses to be carried out, etc."	Training needs assessment for the WUAs leaders and staff is available.
106	B04020N	Training material is available. Training material refers to adequate communication and sensitation tools needed to help WUAs leaders and staff know their responsibilities and carry out their duties	Taining material is available
107	B04020R	Training material is available. Training material refers to adequate communication and sensitation tools needed to help WUAs leaders and staff know their responsibilities and carry out their duties	Taining material is available
108	B04031	Number of Actual Training courses carried out for the WUAs leaders and staff during last year (WUAs include in this case both those operating under PIM & IMT)	Number of Actual Training courses carried out for the WUAs leaders and staff during last year
109	B04032	Number of Training courses Planned for WUAs leaders and staff for last year. Note: WUAs include in this case both those operating under PIM & IMT	Number of Training courses Planned for WUAs leaders and staff for last year.
110	N04030	Percentage of the Number of Actual Training courses carried out for the WUAs leaders and staff (last year) with respect to those Planned. Note: WUAs include both those operating under PIM & IMT	Percentage of the number of training courses carried out for the WUAs leaders and staff last year with respect to those planned.
111	B04041	Cumulative Number of Training Courses Actually carried out for the WUAs leaders and staff up to a Reference Year (RY) (NATCoursesCumulative WUAs (RY)). This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note 1: this data is entered once at the beginning (when data entry for the first year takes place) Note 2: WUAs include both those operating under PIM & IMT	Cumulative Number of Training Courses Actually carried out for the WUAs leaders and staff up to a Reference Year
112	N04041	Actual Cumulative number of Training Courses provided up to last year for the WUAs leaders and staff Note: WUAs include both those operating under PIM & IMT	Actual Cumulative number of Training Courses provided up to last year for the WUAs leaders and staff
113	N04042	Ratio of the Cumulative Number of Training Courses carried out for the WUAs leaders and staff (during the PIM/IMT) with respect to the total number. Note 1: This indicator is evaluated only at the end of PIM/IMT program (i.e.) if the expected completion date = last year and if no postponmet to the propram has been made. In the latter the revised year of completion should be compared with last year, and accordingly the indicator appears for evaluation Note 2: WUAs include both those operating under PIM & IMT	Training Corses Ratio per WUA
114	B04051	Number of WUAs that have received technical training (O&M, water saving) during last year. Note: WUAs include in this case both those operating under PIM & IMT	Number of WUAs that have received technical training (O&M, water saving) during last year.

115	B04052	Cumulative Number of WUAs that have received technical training up to a Reference Year (RY). This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Axample on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note 1: this data is entered once at the beginning (when data entry for the first year takes place) . Note 2: WUAs include both those operating under PIM & IMT	Cumulative Number of WUAs that have received technical training up to a Reference Year
116	N04050	Percentage Number of WUAs that have received technical training (O&M, water saving) during the PIM/IMT program with respect to the total number of WUAs. Note 1: This indicator is evaluated only at the end of PIM/IMT program (i.e.) if the expected completion date = last year and if no postponmet to the propram has been made. In the latter the revised year of completion should be compared with last year, and accordingly the indicator appears for evaluation Note 2: WUAs include in this case both those operating under PIM & IMT	Percentage of WUAs that have received technical training up to the end of the PIM/IMT program. with respect to the total number of WUAs
117	B04060N	Evaluation of each training event for the WUAs is available to obtain feedback on the training and allow improvements	WUAs Training events were evaluated
118	B04060R	Evaluation of each training event for the WUAs is available to obtain feedback on the training and allow improvements	WUAs Training events were evaluated
119	B05010	The accounting system to be used by WUAs accountants should be uniform and comply with the national regulations. If it is not uniform and/or defined, the answer is "No"	Accounting system to be used is defined and uniform for all medium and large WUAs.
120	B05020N	Training/Users' manuals for the adopted accounting system have been prepared and are available for distribution and use	Training Manual for the accounting system to be used is prepared
121	B05020R	Training/Users' manuals for the adopted accounting system have been prepared and are available for distribution and use	Training Manual for the accounting system to be used is prepared
122	B05031	Number of Actual Training Days on Accounting matters for relevant staff/leaders of WUAs (NATDAcc WUAs) carried out during last year. Note: WUAs include in this case both those operating under PIM & IMT.	Number of Actual Training Days on Accounting matters for relevant staff/leaders of WUAs (NATDAcc WUAs) carried out during last year.
123	B05032	Number of Planned training days on Accounting matters for relevant staff/leaders of WUAs (NPTDACC WUAs) during last year. Note WUAs include in this case both those operating under PIM & IMT.	Number of Planned training days on Accounting matters for relevant staff/leaders of WUAs (NPTDACC WUAs) during last year.
124	N05030	Percentage of the number of Actual Training Days on Accounting matters carried out for relevant staff/leaders of WUAs during last year with respect to those Planned . Note: WUAs include both those operating under PIM & IMT)	Percentage of the number of training days on accounting carried out with respect to those planned

125	B05041	Cumulative Number of ActualTraining Days on Accounting matters for relevant staff/leaders of WUAs up to a Reference Year (RY) (NWUAsTechnical TrainingCumulative (RY)). This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Axample on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note 1: this data is entered once at the beginning (when data entry for the first year takes place) . Note 2: WUAs include both those operating under PIM & IMT	Cumulative Number of ActualTraining Days on Accounting matters for relevant staff/leaders of WUAs up to a Reference Year
126	N05041	Actual Cumulative Number of Training Days on Accounting matters for relevant staff/leader of WUAs up to last year Note: WUAs include both those operating under PIM & IMT	Actual Cumulative Number of Training Days on Accounting matters up to last year
127	N05042	Ratio of the Number of Training Days on Accountingl matters carried out for relevant staff/leaders of WUAs during PIM/IMT program with respect to the total number of WUAs. Note 1: This indicator is evaluated only at the end of PIM/IMT program (i.e.) if the expected completion date = last year and if no postponmet to the propram has been made. In the latter the revised year of completion should be compared with last year, and accordingly the indicator appears for evaluation Note 2: WUAs include in this case both those operating under PIM & IMT	Note: WUAs include both those operating under PIM & IMT
128	B05051	Number of WUAs in which the accounting system (software) was installed last year. Note: WUAs include in this case both those operating under PIM & IMT).	Number of WUAs in which the accounting system (software) was installed last year. Note: WUAs include in this case both those operating under PIM & IMT).
129	B05052	Number of WUAs in which the accounting system (software) was planned to be installed last year. Note: WUAs include in this case both those operating both under PIM & IMT.	Number of WUAs in which the accounting system (software) was planned to be installed last year. Note: WUAs include in this case both those operating both under PIM & IMT.
130	N05050	Percentage of the number of WUAs in which the accounting system (generally a software) was installed with respect to those planned during last year. Note: WUAs include both those operating under PIM & IMT. "Generally a software permits to keep records of revenues and expenditures and prepare water bills."	Percentage of WUAs in which the financial system (generally a software) was installed with respect to those planned during last year.

131	B05061	Cumulative Number of WUAs in which the accounting system (software) was Actually installed up to a Reference Year (RY). This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Axample on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note 1: this data is entered once at the beginning (when data entry for the first year takes place) . Note 2: WUAs include both those operating under PIM & IMT	Cumulative Number of WUAs in which the accounting system (software) was Actually installed up to a Reference Year (RY)
132	N05061	Cumulative Number of WUAs in which the accounting system (software) was Actually installed up to last year Note: WUAs include both those operating under PIM & IMT	Cumulative Number of WUAs in which the accounting system (software) was Actually installed up to last year
133	N05062	Percentage Number of WUAs in which the accounting system (software) was installed during PIM/IMT program with respect to the total number of WUAs. Note 1: This indicator is evaluated only at the end of PIM/IMT program (i.e.) if the expected completion date = last year and if no postponmet to the propram has been made. In the latter the revised year of completion should be compared with last year, and accordingly the indicator appears for evaluation Note 2: WUAs include in this case both those operating under PIM & IMT	Percentage of Number of WUAs in which the accounting system (software) was installed with respect to the total number of WUAs.
134	B05070	Independent government officers carry our periodical checks of the WUAs accounts. Independent government officers are those which are not directly involved in providing support to the WUAs	Financial accounts of WUAs are periodically audited by independent government staff.
135	B06010	Federation of WUAs are established over the same hydraulic system. "A federation of WUAs is formed by the integration of smaller WUAs over the same hydraulic system (branch pipe or canal, main canal, main pumping station, etc) The name is country dependent, for instance they are called Branch Canal WUA (BCWUA) in Egypt"	Federations of WUAs are established over the same hydraulic system.
136	B06020	Norms and standard statutes for the federation(s) of WUAs are available "The norms and statutes of federations describe how the smaller WUAs are integrated in a Federation."	Norms and standard statutes for the federation(s) of WUAs are available
137	B06031	Number of WUAs Federations Actually Formed up to last year	Number of WUAs Federations Actually Formed up to last year
138	B06032	Number of WUAs Federations Planned to be formed up to last year	Number of WUAs Federations Planned to be formed up to last year
139	N06030	Percentage Number of WUAs Federations Formed compared to Planned up to last year	Percentage of WUAs Federations formed compared to planned up to last year
140	B06041	Actual Area (irrigable) Covered by the Federations up to last year	Actual Area (irrigable) Covered by the Federations up to last year
141	B06042	Area (irrigable) Planned to be Covered by the Federations up to last year	Area (irrigable) Planned to be Covered by the Federations up to last year
142	N06040	Percentage of irrigable Area Actually covered by Federations compared to Planned	Percentage of irrigable area covered by Federations compared to planned
143	N07011	Number of WUAs where the fee collection ratio is greater than 80% last year (see Fees Collection Ratio in Module C). Note: WUAs in this case refers to those for which the irrigation management tasks have been Handed over	Number of WUAs where the fee collection ratio is greater than 80% last year

144	N07012	Percentage Number of WUAs where the fee collection ratio is greater than 80% with respect to the total WUAs up to last year Note: WUAs in this case refers to those for which the irrigation management tasks have been Handed over)	Percentage of WUAS where the fee collection ratio is greater than 80% with respect to the total WUAs registered up to last year
145	N07021	Number of WUAs last year where the O&M cost was fully covered by the water fees collected. Note: WUAs in this case refers to those for which the irrigation management tasks have been Handed over	Number of WUAs last year where the O&M cost was fully covered by the water fees collected.
146	N07022	Percentage of WUAs where the income match O&M costs with respect to the total WUAs. Note: WUAs in this case refers to those for which the irrigation management tasks have been Handed over	Percentage of WUAS where the income match O&M costs
147	B08010	A M&E system for monitoring and evaluating the PIM/IMT programme and the performance of the WUAS is defined "The M&E system must define the indicators to be used and the evaluation procedures".	A M&E system for monitoring and evaluating the PIM/IMT programme and the performance of the WUAS is defined
148	B08020N	A users' manual of the M&E system is available. "Users manual of the M&E defines the procedures, responsibilities, data collection, storage , processing, indicators definitions, calculations, procedures for the evaluation of data, and reporting system".	A users' manual of the M&E system is available.
149	B08020R	A users' manual of the M&E system is available. "Users manual of the M&E defines the procedures, responsibilities, data collection, storage , processing, indicators definitions, calculations, procedures for the evaluation of data, and reporting system".	A users' manual of the M&E system is available.
150	B08031	Number of Training Days on M&E for leaders and staff of WUAs Actually carried out during last year Note: WUAs include both those operating under PIM & IMT	Number of Training Days on M&E for leaders and staff of WUAs Actually carried out
151	B08032	Number of Training Days on M&E for leaders and staff of WUAs Planned for last year Note: WUAs include both those operating under PIM & IMT	Number of Training Days on M&E for leaders and staff of WUAs Planned for last year
152	N08030	Percentage Number of Training Days on M&E Actually carried out for leaders and staff of the WUAs during last year compared to those Planned Note: WUAs include both those operating under PIM & IMT	Percentage of training days on M&E carried out for leaders and staff of the WUAs during last year compared to those planned
153	B08040N	Each WUA integrates the Annual M&E report "WUAs should produce an annual report with the results of the indicators and the corresponding evaluation integated into the annual workplan and forming the basis for actions next year".	Annual M&E report is integrated into the annual work plan of WUAs
154	B08040R	Each WUA integrates the Annual M&E report "WUAs should produce an annual report with the results of the indicators and the corresponding evaluation integated into the annual workplan and forming the basis for actions next year".	Annual M&E report is integrated into the annual work plan of WUAs
155	B09010	The government undertakes an evaluation of the rehabilitation/improvement needs for each irrigation system transferred? "The evaluation of the status of the irrigation systems is a technical study where the main problems of the irrigation infrastructure are identified with the associated cost of rehabilitation/improvement. Normally this is carried out together with the representatives of the WUAs".	The government undertakes an evaluation of the rehabilitation/improvement needs for each irrigation system transferred?
156	B09021	Number of WUAs where the evaluation of the rehabilitation needs has been carried out up to last year. Note: WUAs include in this case both those operating under PIM & IMT.	Number of WUAs where the evaluation of the rehabilitation needs has been carried out up to last year
157	N09020	Percentage of the number of WUAs where the evaluation of the rehabilitation needs has been carried out up to last year with respect to the total number of WUAs. Note: WUAs include in this case both those operating under PIM & IMT	Percentage of the studies made to identify the rehabilitation/improvement needs of the irrigation systems transferred with respect to the total number of WUAS legally registered
158	B09030N	The leaders of the WUAs and the representatives of the government meet to determine the priority works to be rehabilitated	WUAs representatives participate in identifying relevant rehabilitation requirements
159	B09030R	The leaders of the WUAs and the representatives of the government meet to determine the priority works to be rehabilitated	WUAs representatives participate in identifying relevant rehabilitation requirements

160	B09041	Number of WUAs where rehabilitation works on irrigation system were Actually completed during last year	Number of WUAs where rehabilitation works on irrigation system were Actually completed during last year
161	B09042	Number of WUAs where rehabilitation works on irrigation system were Planned to be completed during last year	Number of WUAs where rehabilitation works on irrigation system were Planned to be completed during last year
162	N09040	Percentage of the WUAs where rehabilitation works on irrigation systems was Actually completed with respect to the total number of WUAs legally registered	Percentage of the WUAs where rehabilitation works on irrigation systems was Actually completed with respect to the total number of WUAs legally registered
163	B09051	Cumulative Number of WUAs where rehabilitation works on irrigation system were Actually completed up to a Reference Year (RY) . This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note: WUAs include both those operating under PIM & IMT	Cumulative Number of WUAs where rehabilitation works on irrigation system were actually completed
164	N09052	Cumulative Number of WUAs where rehabilitation works on irrigation system were Actually completed up to last year Note: WUAs include both those operating under PIM & IMT	Cumulative number of WUAs where rehabilitation works on irrigation system were Actually completed up to last year
165	B09053	Cumulative Number of WUAs where rehabilitation works on irrigation system were Planned to be completed up to a Reference Year (RY). This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note: WUAs include both those operating under PIM & IMT	Cumulative Number of WUAs where rehabilitation works on irrigation system were Planned to be completed up to a Reference Year (RY)
166	N09054	Cumulative Number of WUAs where rehabilitation works on irrigation system were Planned up to last year Note: WUAs include both those operating under PIM & IMT	Cumulative Number of WUAs where rehabilitation works on irrigation system were Planned up to last year

167	N09055	Percentage of WUAs where rehabilitation works on irrigation system were Actually completed during PIM/IMT program with respect to those planned. Note 1: This indicator is evaluated only at the end of PIM/IMT program (i.e.) if the expected completion date = last year and if no postponmet to the propram has been made. In the latter the revised year of completion should be compared with last year, and accordingly the indicator appears for evaluation Note 2: WUAs include in this case both those operating under PIM & IMT	Percentage of WUAs where rehabilitation works on irrigation system were Actually completed during PIM/IMT program with respect to those planned.
168	C01010	The statutes of a WUA regulate the responsibilities and rights of the leaders of the association as well as those of the farmers	Statutes of the WUA are available
169	C01011	The transfer agreement has been signed. The transfer agreement is a document that regulates the functions and tasks delegated to the WUA by the Irrigation Agency	Transfer agreement has been signed
170	C02011	Actual registered number of farmers in the Association	Actual registered number of farmers in the Association
171	C02012	Total number of farmers within the irrigable area (including those that are not members of the association). In the case where WUA's membership is voluntary (Ex: Jordan), there are farmers within the irrigable area that are not registered in the association. For the non-members, it is suggested to use the simple criteria that each farm corresponds to one farmer, although it may not be exact when the farm is the legal property of several persons. Note: Sometimes, when the water is abundant, the WUAs provide water to farmers outside the system on annual bases contracts. These farmers are not part of the WUA and therefore should not be considered in this indicator	Total number of farmers within the irrigable area
172	P02010	Ratio between the actual registered number of members in the WUA and the total number of farmers within the irrigable area (including those that are not members of the association)	WUA membership ratio
173	C02020	Number of General Assembly Meetings held in last year	Number of General Assembly Meetings held in last year
174	C02031	Number of registered farmers, that attended the last general assembly. In medium and large WUAs the registered farmers elect delegates to represent them at the General Assemly. Normally groups of 50- 100 farmers elect one delegate. Therefore if the General assembley is attended by Delegates they must be converted into number of registred farmers taking into account the number of farmers that each one represents.	Number of registered farmers, that attended the last general assembly
175	P02030	Percentage of the number of registered farmers that attended the last Annual General Assembly with respect to the total number of registered farmes of the WUA.	Annual General Assembly Meeting attendance ratio
176	C02041	Number of meetings held by the Administrative Council during last year (January-December)	Number of meetings held by the Administrative Council during last year
177	C02042	Number of meetings planned by the Administrative Council during last year (January-December)	Number of meetings planned by the Administrative Council during last year
178	P02040	Percentage of "Administrative Council" meetings held last year with respect to those planned	Percentage of Actual "Administrative Council" meetings held with respect to those planned
179	C02050	Is the elections of the Administrative Council made through:	Elections of the Administrative Council are held regularly
180	C02061	Number of women farmers registered as members of the WUA	Number of women farmers registered as members of the WUA
181	C02062	Number of women participating in the last General Assembly	Number of women participating in the last General Assembly
182	P02060	Percentage of women participating in the last General Assembly with respect to the total number of registered women farmers	Percentage of women (members of the WUA) participating in the General Assembly
183	C02063	Number of women members of the Administrative Council	No. of Women members in Administrative Council
184	C02070	Audit Committee is established. The purpose of the Audit Commitee is to control the accounts of the WUA and that all opeartions are done according to the statutes.	WUA Audit committee is established

185	C02080	Annual auditing report (for the previous year) approved by the General Assembly Meeting.	Auditing Committee report approved by General Assembly
186	C02090	Annual financial report (for the previous year) is approved by the general assembly. " The Annual financial report is the document presenting the annual financial balance of the WUA for the previous year that must be approved by the General Assembly Meeting"	Annual financial report (for the previous year) approved by the general assembly
187	C02100	Annual "financial and work plan" approved by the general assembly.	Annual financial and work plan approved by the general assembly
188	C02110	Committee/mechanism for Conflict resolution and internal Communication establsihed .	An internal mechanism of communication and conflict resolution established
189	C02120	Annual Communication and conflict resolution report is the document presenting the annual activity report of the commitee in charge of communication and conflict resolution (for the previous year) that must be approved by the General Assembly Meeting.	Annual communication and conflict resolution report (for the previous year) prepared and approved by the general assembly
190	C03010	The planned water allocation (expressed in m3/ha) to be provided for the WUA, is announced at the beginning of the season. Sometimes the allocations are expressed as the amounts to be provided per main crops or gropus of crops such as : trees, vegetables, etc. which is also a valid alternative. The question tries to assess if the farmers are informed of the expected amounts of water tha they will receive during the season.	Planned annual allocations are announced to farmers
191	C03021	Planned water allocation (at the head of the system) of last year expressed in m3/ha. If the water allocation is expressed in m3 per ha of main crops (vegetables, trees, cereals, etc.) the average must be calculated.	Planned water allocation
192	C03022	Total amount of water received by the WUA at the main intake(s) and distributed during last year through open canal network (expressed in m3). This is equal to the total water supplied in this case for the open canal network	Total amount of water received by the WUA at the main intake(s) and distributed during last year through open canal network
193	C03023	Total amount of water received by the WUA at the main intake(s) and distributed during last year through pressurised system expressed in m3. This is equal to the total water supplied in this case for the pressurised pipe system	Total amount of water received by the WUA at the main intake(s) and distributed during last year through pressurised system
194	C03024	irrigable area is the maximum area that can be irrigated within the WUA irrigation scheme if there no limitation of supply. It is calculated by summing the net irrigable area of all farms inside the irrigable area. This is a characteristic of the irrigation system and does not change with time unless there is an important rehabilitation or improvement of the irrigation system.	Irrigable area
195	P03021	Total amount of water received by the WUA at the main intake(s) and distributed during last year to both open canals and/or pressurised systems (as applicable) and expressed in m3	Total amount of water received by the WUA at the main intake(s) and distributed during last year to both open canals and/or pressurised systems (as applicable) and expressed in m3
196	P03022	Total amount of water received by the WUA at the main intake(s) and distributed during last year to both open canals and/or pressurised systems (as applicable) and expressed in m3 per unit irrigable area (ha).	Total amount of water received by the WUA at the main intake(s) and distributed during last year to both open canals and/or pressurised systems (as applicable) and expressed in m3 per unit irrigable area (ha).
197	P03023	Reliabiliy of water allaocation. This indicator, expressed in pecentage, reflects the accuracy of the planned allocation with respect to the actual amount of water received from the main sources.	Relaibiliy of water allaocation

198	C03030	Maximum volume of water that the system can deliver in a month expressed in m3/ha . This is the maximum volume that enters into the WUA irrigation system at all intakes (main pipe or canal, own wells, pumped from reuse,etc). It is a function of (1) the maximum flow (in litters/second) that enters each intake (which can only change when the irrigation system is rehabilitated or improved), (2) the number of operation hours per day during 30 working days, and (3) the irrigable area. This indicator can be calculated for each intake as follows: Max flow that enters into the WUA irrigation system at intake 1 (Litters/Second) * 3600 second per hour * number of hours the system at intake 1 is operated during the day * number of days in a month (30 days). The above is calculated for each intake and summed up for all intakes, then the sum is divided by the irrigable area. Note: The theoretical number of hours is 24, but rarely irrigation systems work for 24 hours since the pumping unit needs time for periodical checking and cooling down.	Maximum volume of water that the system can deliver in a month expressed in m3/ha
199	C03041	Total volume of water received at the main intake(s) during the peak month of demand of last year expressed in m3	Total volume of water received at the main intake(s) during the peak month of demand of last year
200	P03041	Total volume of water received at the main intake(s) during the peak month of demand of last year expressed in m3/ha of irrigable area	Total volume of water received at the main intake(s) during the peak month of demand of last year expressed in m3/ha of irrigable area
201	P03042	Delivery design performance ratio expressed in percentage. This relates the amount of water actually received at the main intakes during the peak month of demand of last year with the maximum volume of water that the system can deliver in a month (in m3 per irrigable hectares in both cases)	Delivery Design Performace Ratio
202	C03051	Total farm Irrigation supply under open canals = Total annual volume of irrigation water delivered to all farm gates served by open canals during the last year. Note: If the irrigation network is exclusively pressurised, then enter zero for this variable. Otherwise enter the farm irrigation sypply figures corresponding to the part which is covered by open canal network.	Total farm Irrigation supply under open canals
203	C03052	Total farm Irrigation supply under pressurised pipes = Total annual volume of irrigation water delivered to all farm gates served by pressurised pipes during the last year (volume distribute) Note: If the irrigation network is exclusively pressurised, then enter zero for this variable. Otherwise enter the farm irrigation sypply figures corresponding to the part which is covered by pressurised pipe network.	Total farm Irrigation supply under pressurised pipes
204	P03051	Total farm Irrigation supply = Total annual volume of irrigation water delivered to all farm gates served by open canals and pressurised pipes during the last year	Total farm Irrigation supply
205	P03052	Water delivery efficiency - Open Canals network: expresses the performance of that part of the irrigation network which is covered by Open Canals with respect to its ability to convey and deliver water from the water source to the farm gates (outlets) with minimum losses.	Water delivey effciency of Open Canals network
206	P03060	Water delivery efficiency - pressurized irrigation system: expresses the performance of that part of the irrigation network which is covered by pressurised pipes, with respect to its ability to convey and deliver water from the water source to the farm gates (outlets) with minimum losses.	Water delivey effciency of Pressurised Pipes network
207	C03071	Irrigated area during last year. It refers to the total number of hectares that received water at least once during last year	Irrigated area during last year
208	P03071	Water consumption per irrigated area. It is the resullt of dividing the total farm irrigation supply by the irrigated area of last year	Water consumption per irrigated area
209	C03072	Estimated annual crop water requirements in the area or region where the WUA is located expressed in m3 /ha. This is the average amount of water per ha that is considered sufficent to grow the common crops in the area of the WUA.	Estimated annual crop water requirements in the area or region where the WUA is located expressed in m3 /ha

210	P03072	Percentage of the water consumption per irrigated area with respect to the estimated crop water requirements in the area or region of the WUA. It represents the level of scarcity with regard to accepted regional crop water requirements. This is a simplification of the theoretical indicator called Relative water supply	Scarcity ratio with respect to regional crop water requirements. It is a simplification of the indicator called relative water supply.
211	C03081	Total number of hectares that were cropped and irrigated last year. If an hectare has been cropped 2 or 3 times a year it counts as 2 or 3 ha	Total number of hectares that were cropped and irrigated last year
212	P03081	Cropping intensity. This indicator provides a good indication of how intensively the land is cultivated in a given year.	Cropping intnesity
213	C03091	Irrigable area that is served with open canals	irrigable area that is served with open canals
214	P03091	Percentage of the total irrigable area that is served with open canals	Percentage of the total irrigable area that is served with open canals
215	C03101	Irrigable area that is served with closed pipes	Irrigable area that is served with closed pipes
216	P03101	Percentage of the total irrigable area that is served with closed pipes	Percentage of the total irrigable area that is served with close pipes
217	C03102	irrigable area under surface irrigation. This value will coincide normally with the area served by the open canals, but there may be cases where they do not coincide	irrigable area under surface irrigation.
218	P03102	Percentage of the total irrigable area under surface irrigation. This value will coincide normally with the area served by the open canals, but there may be cases where they do not coincide	Percentage of the total irrigable area under surface irrigation.
219	C03103	Irrigable area under sprinkler irrigation	irrigable area under sprinkler irrigation
220	P03103	Percentage of the total irrigable area under sprinkler irrigation	Percentage of the total irrigable area under sprinkler irrigation
221	C03104	irrigable area under localised irrigation	irrigable area under localised irrigation
222	P03104	Percentage of the total irrigable area under localised irrigation	Percentage of the total irrigable area under localised irrigation
223	C04011	Actual Interval in days between two consecutive irrigations during the month of peak requirements. The irrigation interval is generally decided by the irrigation agency that provides the water	Actual Interval in days between two consecutive irrigations during the month of peak requirements.
224	C04012	Desired Interval in days between two consecutive irrigations (during the month of peak requirements) according to the WUA	Desired interval in days between two consecutive irrigations
225	P04010	Ratio that relates the planned interval and the desirable interval between consecutive irrigations (as delivered by the WUA) during the month of peak requirements.	Suitability of the actual interval between consecutive irrigations (as delivered by the WUA) during the month of peak requirements.
226	C04021	Total number of on-farm reservoirs	Total number of on-farm reservoirs
227	P04020	Ratio of the total number of on-farm reservoirs to the total number of registered farmers of the WUA. A high value of this indicator indicates that farmers are not satisfied with the intervals and timing of irrigation and compensate it by constructing on-farm reservoirs	Ratio of the total number of on fam reservoirs to the total of registered farmers
228	C04031	Average flow at the lower end turnouts in open canal systems: Average flow at the last lower end turnouts of three selected tertiary canals (average of at least 3 measurements per turnout; one measurement every month for 3 consecutive months). Methodology: select 3 tertiary canals (one at the upper end, one in the medium part and one at the lower end of the irrigation system. In each tertiary canal, measure the flow at the lower turnout once every month for 3 consecutive months. Average out all measurements taken in the three tertiary canals Note: The measurement of the flow at the lower turnout must be accompanied with measuring the flow (at the same day and time) at the upper turnout of the same tertiary canal.	Average flow at the lower end turnouts in open canal systems

229	C04032	Average flow at the upper turnouts in an open canal system. Average flow at the first upper turnout (average of at least three selected tertiary canals (average of at least 3 measurements per turnout; one measurement every month for 3 consecutive months). Methodology: select 3 tertiary canals (one at the upper end, one in the medium part and one at the lower end of the irrigation system. In each tertiary canal, measure the flow at the upper end turnout once every month for 3 consecutive months. Average out all measurements taken in the three tertiary canals. Note: The measurement of the flow at the upper turnout must be accompanied with measuring the flow (at the same day and time) at the lower turnout of the same tertiary canal.	Average flow at the upper turnouts in an open canal system
230	P04030	Coefficient that relates the flow between the turnouts located at the head and tail of 3 tertiary canals located in the upper, medium and lower end of the irrgation system	Ratio of flow between the lower and upper end turnouts in open canal systems
231	C04041	Average flow at the lower turnouts in pressurized systems. Average flow at the last lower end turnout of three selected tertiary pipes (average of at least 3 measurements per turnout; one measurement every month for 3 consecutive months). Methodology: select 3 tertiary pipes (one at upper end, one in the medium part and one at lower end of the irrigation system. In each tertiary pipe, measure the flow at the lower turnout once every month for 3 consecutive months. Average out all measurements taken in the three tertiary pipes. Note: The measurement of the flow at the lower turnout must be accompanied with measuring the flow (at the same day and around the same time) at the upper turnout of the same tertiary pipe.	Average flow at the lower turnouts in pressurized systems.
232	C04042	Average flow at the upper turnouts in pressurised irrgation systems. Average flow at the upper turnout (average of at least 3 measurements per turnout; one measurement every month for 3 consecutive months). Methodology: select 3 terciary pipes (one at the upper end , one in the medium part and one at the lower end of the irrigation system. In each tertiary pipe, measure the flow at the upper end turnout once every month for 3 consecutive months. Average out all measurements taken in the three tertiary pipes Note: The measurement of the flow at the upper turnout must be accompanied with measuring the flow (at the same day and around the same time) at the lower turnout of the same tertiary pipe.	Average flow at the upper turnouts in pressurised irrgation systems
233	P04040	Coefficient that relates the flow between the turnouts located at the tail and head of 3 tertiary pipelines located in the upper, medium and lower end of the irrigation system .	Ratio of flow of between the lower and upper end turnouts in pressurised irrigation systems
234	C04051	Average Pressure at the lower end turnout. Methodology : Select the longest pipeline of the irrigation system. Measure the pressure at the lower end turnout in the selected pipeline, once monthly, during 3 consecutive months. Average out pressure values taken during the 3 months	Average Pressure at the lower end turnout
235	C04052	Average target pressure in the pipeline (according to the technical condition of the network). The pipeline refers to the selected longest tertiary pipeline in the irrigation system (for which the average pressure at the lower end turnout was measured, once monthly, during 3 consecutive months),	Average target pressure in the pipeline
236	P04050	It is a coefficient that measures the deviation of the pressure of a turnout (normally the last one) with respect to the target pressure in the pipeline (according to the technical condition of the network)	Uniformity of pressure
237	C04061	Percentage of farmers who are satisfied with the uniformity of the flow in the pressurised pipeline. The questionnaire should target a sample of 20-30 farners at the upper and the lower turnouts	Degree of farmers satisfaction with the flow received in the pipeline
238	C04062	Percentage of farmers who are satisfied with the uniformity of the pressure. The questionnaire should target a sample of 20-30 farners at the upper and the lower turnouts	Degree of farmers satisfaction with the pressure received in the pipeline
239	C05010	Prepared operation guidelines are in use. "These guidelines describe the main norms for operating the irrigation system and the corresponding responsibilities"	Prepared operation guidleines are used
240	C05020	Prepared maintenance guidelines and in use. "These guidelines describe the main criteria for undertaking maintenance work and corresponding responsibilities"	Prepared maintenance guidelines are used
241	C05030	Annual Maintenance plan is prepared. "The plan describes the maintenance works to be done with cost estimations and implementation schedule"	Annual maintenace plan prepared
242	C05040	Annual Operation Plan is prepared. "Ithis plan describes the main operation activities to be carried out with cost estimations and implementation schedule"	Annual operation plan prepared

243	C05050	Concerned staff has been trained in the use of the O&M guidelines during the last five years. "Concerned staff includes hired staff and members of the Administrative Council"	Opeartion staff trained in their duties
244	C05060	Percentage of farmers who are satisfied with the operation of the irrigation system. A sample of 20-30 farmers can be selected to express their opinion on this.	Degree of satisfaction of the farmers with the operation of the irrigation system
245	C05070	Percentage of farmers who are satisfied with the maintenance of the irrigation system. A sample of 20-30 farmers can be selected to express their opinion on this.	Degree of satisfaction of the farmers with the maintenance of the irrigation system
246	C05081	Actual cost of the maintenance activities during last year	Actual cost of the maintenance activities during last year
247	C05082	Budgeted cost for the maintenance activities of last year	Budgeted cost for the maintenance activities of last year
248	P05080	Percentage of the actual maintenance cost with respect to the budgeted. Emergency situation should not be included among the actual expenditures	Maintenance cost implementation ratio
249	C06010	A WUA system for record keeping and retrieval is in place A record keeping system includes several data bases, for instance: WUAs membership, legal and administrative documents, minutes of meetings, maintenance materials inventory, plots and irrigation network drawings, state of maintenance of canals , GIS and any other relevant information, etc.	WUA system for record keeping and retrieval is in place
250	C06020	The financial system is operational. The financial system consists generally of a software application or manually kept records based on approved standard procedures or any other approved standard document that permits to keep records of revenues and expenditures and prepare water bills. A manual system is also acceptable	Financial system is operational.
251	C06030	Guidelines for budget preparation are available. Such guidelines are important to facilitate audits and to ensure that adequate budget for all components are included (including maintenance)	Guidelines for budget preparation are available.
252	C06040	Guidelines for cost accounting, auditing and budgetary control are available. Such guidelines are also very important to ensure good financial management.	Guidelines for cost acoounting, auditing and budgetary control are available
253	C06051	Total annual costs incurred last year by the WUA. These include all the costs (including management costs). In the case where a WUA is established under cooperative law, the cooperative cost should be included	Expected Total Annual Cost Per irrigable area (Ha)
254	C06052	Expected Total Annual Cost last year per irrigable area (Ha). The expected total annual cost should include all the costs (including management costs). The expected cost should take into considerattion the complexity of the infrstructure (whether it involves pumping system or gravity, level of farmers participation in the O&M etc...). The expected total costs for last year can be obtained from last year's budget approved by the General Assembly . The total expected costst should then be divided by the irrigable area to obtain the Expected Total Annual Cost per irrigable area (Ha)	Expected Total Annual Cost Per irrigable area (Ha)
255	P06050	Total actual annual costs incurred by the WUA last year per unit Irrigable area. The total annual cost should include all the costs (including management costs)	Total Annual WUA costs incurred last year per unit irrigable area
256	C06061	Expected Total annual Cost per m3 projected to be supplied at the farm level last year. This can be obtained from last year's budget approved by the General Assembly	Expected Total annuanl Cost Per m3 projected to be supplied at the farm level last year.
257	P06060	Total annual cost incurred last year by the WUA per unit of irrigation water supply at the farm. This expresses the relation between the total annual costs of the WUA including management costs and the total annual volume of irrigation water supplied at the farm level (m3) ; It includes WUA management costs and represents the cost borne by the WUA to supply a farm with one m3 of irrigation water. Note: These are specific scoring criteria for Tunisia based on comparison with Expected Total annual Cost per m3 supplied at the farm level. Note: All countries are invited to review the scoring criteria and to adapt it to their own local condition	Total annual WUA cost incurred last year per m3 of irrigation water supplied at the farm level.
258	C06071	Expected Total annual Cost per m3 projected to be supplied at the head of the scheme last year. This can be obtained from last year's budget approved by the General Assembly.	Expected Total annual Cost per m3 projected to be supplied at the head of the scheme last year.
259	P06070	Total annual cost incurred last year by the WUA per unit of irrigation water supply at the head of the scheme. This expresses the relation between the total annual costs of the WUA including management costs and the total annual volume of irrigation water supplied at the head of the scheme (m3)	Total annual WUA cost incurred last year per unit irrigation water supplied at the head of the system.

260	C06080	Arrears from previous year. It is the balance of the budget from previous year and can be negative or positive.	Arrears from previous year
261	C06091	Total annual direct maintenance costs incurred last year by the WUA. These do not include WUA management costs nor staff costs.	Total annual direct maintenance costs incurred last year by the WUA
262	C06092	Expected Total Annual Direct Maintenance Cost Per ha of irrigable area (this can be calculated from the budget for next year). Annual Direct Maintenance costs do not include WUA management costs nor staff costs.	Expected Total Annual Direct Maintenance Cost Per ha of irrigable area
263	C06093	Total annual direct maintenance costs incurred last year by the WUA. These do not include WUA management costs nor staff costs.	Total annual direct maintenance costs incurred last year by the WUA
264	P06091	Total annual direct maintenance costs incurred last year by the WUA per unit of irrigable area. Management costs are not included the cost of the WUA staff dedicated to maintenance.	Total annual WUA direct maintenance costs incurred last year per unit of irrigable area
265	P06092	Average total annual direct maintenance costs incurred during the past five years by the WUA per unit of irrigable area. Management costs are not included nor the cost of the WUA staff dedicated to maintenance.	Average WUA direct maintenance costs for the past five years per unit of irrigable area
266	C06101	Total annual cost of personnel working in the WUA last year. This includes all kind of staff: management, technical, acounting, fix and temporary workers	Total annual cost of personnel working in the WUA last year.
267	C06102	Expected personnel costs last year per ha of irrigable land. These costs are normaly found in last year's budget approved by the General Assembly	Expected personnel costs per ha of irrigable land.
268	P06100	Total annual cost of personnel incurred last year by the WUA per unit of irrigable area	Total annual cost of personnel incurred last year by the WUA per unit of irrigable area.
269	C06111	Expected Fixed Costs for last year per ha of irrigable land. These are the fixed costs that are calculated in last year's budget approved by the General Assembly	Expected Fixed Costs for last year per ha of irrigable land.
270	C06112	Fixed Irrigation Service Fee for last year (fee per hectare). It is the payment actually made last year by a user for an irrigation service. Irrigation service fees may comprise fixed elements(e.g. in Tunisia TND 50/ha) plus variable elements (e.g. in Jordan .008 JOD per cubic metres of water and in Tunisia TND 0.100 per cubic metres of water). This variable expresses the fixed element (amount to be paid per irrigable area in Ha). Note: Fixed Irrigation service Fee must cover at least the fixed cost that was estimated in the budget of last year and approved by the General Assembly (maintenance, personnel and management costs)	Irrigation service fee for last year
271	C06121	Expected Variable Costs per m3 of water projected to be supplied at the farm. These are the variable costs that can be obtained from last year's budget approved by the General Assembly	
272	C06122	Variable Irrigation Service Fee (fee per m3 supplied at the farm) for last year. Irrigation service fees may comprise fixed elements(e.g. in Tunisia TND 50/ha) plus variable elements (e.g. in Jordan .008 JOD per cubic metres of water and in Tunisia TND 0.100 per cubic metres of water). This variable expresses the Variable element (amount to be paid per cubic meter of water delivered at the farm gate). In case the tariff for the variable fee is progressive, then indicate the average variable fee. Note: Variable Irrigation Service Fee must cover at least the variable costs : energy, purchasing of water. It has to be evaluated on this basis.	Variable Irrigation Service Fee
273	C06131	Total collected fee last year. It is the total amount of money collected last year through the payment of the irrigation service fees in a year. In the case of Jordan the total fees include the amounts paid to JVA as water fees plus the fees paid to the cooperative as cooperative members	Total collected fee last year.
274	C06132	Total amount of money billed by the WUA last year. In the case of Jordan the total amount of money billed includes the amounts billed by the JVA as water fees plus the bill emmited byt the WUA to the cooperative members	Total amount of money billed by the WUA last year
275	P06140	WUA Fee collection ratio during last year. This is a coefficient that relates the fees collected last year to those due	Fee collection ratio during last year

276	C06151	Number of water users who have not paid the iIrrigation Service Fees at the end of the last year. If Irrigation Service Fees are paid in several instalments, then farmers who have paid less than 50% of the total instalments are considered "not having paid". In the case of Jordan it refers to the number of farmers that have not paid the bill to the JVA. The cooperative annual fee is not considered since is very samll and nearly all farmers pay it.	Number of water users who have not paid the iIrrigation Service Fees at the end of the last year.
277	P06150	Percentage of the farmers who have not paid last year the Irrigation Service Fees with resepct to the total number of registered farmers in the WUA	Water Users Paymnent Rate during last year
278	P06160	Percentage of the annual cost incurred by the WUA last year that is recovered by the total amount of water billed	Percentage of the annual cost incurred by the WUA last year that is recovered by the total amount of water billed
279	C07010	The manual of WUA organization and functions is available. The manual describes clearly how the WUA is organized, the functions to be carried out and the responsibilities of the leaders and managers	The manual of WUA organization and functions is available
280	C07020	A recruitment policy is available. Recruitment policy refers to clear and transparent criteria for selecting staff to work in the WUA.	A recruitment policy is available:
281	C07031	Total number of hired staff working in the WUA under temporary or permanent contracts	Total number of hired staff working in the WUA under temporary or permanent contracts
282	P07030	Number of hired staff working in the WUA and responsible for the management, operation and maintenace per every 1000 ha of irrigable area	Number of hired staff working in the WUA per 1000 Ha of irrigable area
283	C07040	A communication system with water users is in use. Thi refers to the use of different means to communicate with water users. For instance: Internet, normal mail, SMS; posters in strategic places, dedicated cell phone etc.	Communication system with the water users is in use
284	C07050	WUA organizes training sessions for farmers: this is often the WUA responsibility	WUA organizes training sessions for farmers
285	C07061	Number of trainng sessions organized last year by the WUA for the farmers. A training session is an event lasting at least one day where more than 10 farmers participate	Number of training sessions organized last year by the WUA
286	P07060	Percentage change in the number of training sessions organized last year by the WUA for the farmers with respect to two years ago.	Percentage change in the number of training sessions organized last year by the WUA for the farmers with respect to two years ago.
287	C07070	Degree of satisfaction of the farmers with respect to the WUA performance represents the percentage of farmers who are satisfied. It will be necessary to carry out a survey among the famers. To make statistically significant will be expensive. Hence it is suggested to ask at random some 20- 30 farmers trough a questionnaire to be filled	Degree of satisfaction of the farmers with respect to the WUA performance
288	C07080	Degree of government staff satisfaction with respect to performance of WUA represents the percentage of government staff who are satisfied. It is recommended to carry out this survey among the government staff of the concerned regional office working with the WUA in question	Degree of government staff satisfaction with respect to performance of WUA
289	C08011	Number of penalties imposed to guilty farmers during last year	Percentage change in the number of penalties imposed to farmers
290	P08010	Percentage change in the number of penalties imposed to farmers last year with respect to two years ago	% reduction in the number of penalties imposed
291	C08021	Estimated cost of repairs due to illegal abstractions during last year	Estimated cost of repairs due to illegal abstractions during last year
292	P08020	Percentage change in the estimated cost of repairs due to illegal abstractions (ECRI)	% reduction in the estimated cost of the repairs due to illegal abstractions
293	C08031	Expected Water Delivery efficiency (Open Canals). It’s a local parameter depending on the quality of the irrigation network and the operation practices (as regulation etc…)	Expected Water Delivery efficiency (Open Canals)
294	P08030	Ratio of water delivery efficiency of last year with respect to expected water delivery efficiency (Open Canals). In normal situation, when the irrigation network is adequately operated and maintained and without illegal abstraction, WDE must be compared to the expected water delivery efficiency for the scheme	Ratio of Actual Water Delivery Efficiency (WDE) to Expected WDE in open canals

295	C08041	Expected Water Delivery efficiency (Pressurised system). It's a local parameter depending on the quality of the irrigation network and the operation practices (as regulation etc…)	Expected Water Delivery efficiency (Pressurised system)
296	P08040	Ratio of water delivery efficiency (WDE) of last year with respect to expected WDE (pressurised system.) In normal situation, when the irrigation network is adequately operated and maintained and without illegal abstraction, WDE must be compared to the expected water delivery efficiency for the scheme (of 0.85 to 0.95 for pressurized networks).	Ratio of water delivery efficiency (WDE) of last year with respect to expected WDE in pressurised system.
297	P08051	Average maintenance cost implemented during the last 5 years divided by irrigable area of the scheme	Average maintenance cost per ha
298	C08052	Expected maintenance cost per ha. This refers to standard cost per ha recommended for comprable schemes. It is generally around one to two percent of the investment cost of the irrigation scheme.	Expected maintenance cost per ha
299	P08052	Implemented maintenance cost ratio refers to the ratio of the five years average maintenance cost per ha with respect to the expected maintenance cost per ha. In normal situation, when the irrigation network is adequately maintained this value is at least 1	Implemented maintenance cost ratio
300	C09010	The WUA has its own M&E system which consists of a set of indicators aimed at assessing if activities, outputs and outcomes are achieved.	The WUAs has its own M&E system.
301	C09021	The relevant staff of the WUA has been adequately trained to use the M&E system	The relevant staff of the WUA has been trained in the use of the M&E system
302	C09022	The relevant M&E results to be reported to the Irrigation Agency are identified	The relevant results of the M&E system to be reported to the Irrigation agency are identified
303	C09023	The relevant M&E results are reported to the Irrigation agency	Relevant M&E results are reported to the Irrigation Agency
304	C09024	The WUA produces an annual report with the analysis of the performance of the WUA and the annual results of the indicators of the M&E system	The WUA produces an annual report with the analysis of the performance of the WUA
305	P09030	Percentage of WUA leaders who are satisfied with the M&E system	The leaders of the WUA are satisfied with the M&E system
306	C10011	Irrigation water salinity expressed as Electrical conductivity in dS/m	Irrigation water salinity
307	C10012	Irrigation water salinity expressed in g/liter	Irrigation water salinity
308	C10020	Untreated drainage water of the irrigation system managed by the WUA is reused for irrigation within the system	Untreated drainage water is reused for irrigation
309	C10040	Annual volume of untreated drainage water reused	Annual volume of reused untreated drainage water
310	C10050	Treated wastewater is reused for irrigation as main resource of the scheme. It refers to treated wastewater allocated to, or purchased by the WUA and reused in irrigation	Treated wastewater is reused for irrigation as main resource of the scheme
311	C10060	Annual volume of treated wastewater reused in irrigation	Annual volume of reused treated wastewater
323	D04021	Total Annual Crop Production (TACP) within irrigable irrigable area served by the WUA expressed in tons. To calculate this value it is necessary to multiply for each crop, the average crop production per unit area planted (tons/Ha) by the planted area of that crop and aggregate the result for all the crops. Mathematically this is expressed as follows: TACP = ∑ ((Area of crop 1 * average production per hectare of crop 1) +(Area of crop 2 * average production per hectare of crop 2)+ …)	Total Annual Crop Production within irrigable irrigable area served by the WUA expressed in tons.
324	D04022	Total Annual value of all crops produced (TAVCP) within the irrigable area served by the WUA expressed in local currency. To calculate this value it is necessary to multiply for each crop, the average crop production per unit area planted (tons/Ha) by both the planted area of that crop (Ha) and its market value (Currrecncy/ton) and aggregate the result for all the crops. Mathematically this is expressed as follows: TAVCP= ∑ ((Area of crop 1 * average production per hectare of crop 1* price crop 1) +(Area of crop 2* average production per hectare of crop 2*price crop 2 + …))	Total Annual value of all crops produced within the irrigable area served by the WUA expressed in local currency.
325	R04020	Average value of the crop production per irrigated hectare. The annual trend of this indicator provides a good indication of the effect of the WUAs management in the increase of crop production and its market value	Average value of the crop production per irrigated hectare

326	R04030	Average value of the crop production per m3 of water delivered at the farm gates. This indicator provides a good orientation of the value of water or, in other words, the income that every m3 can generate.	Average value of the crop production per m3
327	D04041	Area covered by green houses constructed within the irrigable area served by the WUA. Normally the green houses have standard dimensions and therefore knowing the number of green houses is possible to calculate the area covered by the green houses	Area covered by green houses constructed within the irrigable area served by the WUA.
328	R04040	Percentage of the irrigable area covered by green houses	Percentage of the irrigable area covered by green houses
329	D04051	Number of irrigated crops before the irrigation scheme was transferred. The year of reference is the year before the WUA was formally established	Number of irrigated crops before the irrigation scheme was transferred. The year of reference is the year before the WUA was formally established
330	D04052	Actual number of irrigated crops within the irrigated area during last year	Actual number of irrigated crops within the irrigated area during last year
331	R04050	Percentage of the actual number of irrigated crops during last year compared to those of the year before the formal establishment ofthe WUA	Percentage of increas in the number of crops grown
332	D05011	Irrigated hectares with soil conductivity (ECe) higher than 4 (mmhos/cm) during last year	Irrigated hectares with soil conductivity (ECe) higher than 4 (mmhos/cm) during last year
333	R05010	Annual percentage of change in the areas affected by high soil conductivity	Percentage of change in irrigated areas affected by high salinity in the soils
334	D05021	Irrigated hectares affected by high seasonal groundwater table (waterlogging) during last year	Irrigated hectares affected by high seasonal groundwater table (waterlogging) during last year
335	R05020	Annual percentage of change in the areas affected by high ground water table	Percentage of change in irrigated areas affected by high groundwater tables
336	D06010	Is the WUA taking any initiative to remove nocive materials such as: used plastics of green houses, pesticides packages etc…)	Environmental activities undertaken by the WUAs
337	D06020	Quantities of nocive materials collected last year (used plastics of green houses, pesticides packages etc…) expressed in kg.	Quantities of nocive materials collected last year (used plastics of green houses, pesticides packages etc…) expressed in kg.
338	R06020	Percentage of quantities of nocive materials for the environment collected by the WUA last year with respect of two years ago	Percentage of increase in the removal by the WUA of nocive materials for the environment
339	D07010	Initial O&M costs before the tranfer to the WUA in question took place. Note: This should be filled by the regional officer, as such information will mostly be at the regional office	Initial O&M costs before the tranfer to the WUA in question took place.
340	R07010	Percentage change (at the end of PIM/IMT) in the O&M costs of the irrigation scheme transferred to the WUA in question with respect to the initial O&M costs Note: This indicator is evaluated only at the end of PIM/IMT program (i.e.) if the expected completion date = last year and if no postponmet to the propram has been made. In the latter case, the revised year of completion should be compared with last year, and accordingly the indicator appears for evaluation	Percentage change in O&M costs of the schemes transferred to WUAs with respect to the initial O&M costs
341	D08010	Initial maximum volume of water that the system can deliver in a month expressed in m3/ha (before the tranfer to the WUA in question took place) Note: This should be filled by the regional officer, as such information will mostly be at the regional office	Initial maximum volume of water that the system can deliver in a month expressed in m3/ha (before the tranfer to the WUA in question took place)

342	R08010	Percentage change in the maximum volume of water that the system can deliver in a month in the transferred irrigation scheme of the WUA in question (at the end of PIM/IMT) with respect to the initial maximum water availability (before the transfer) Note: This indicator is evaluated only at the end of PIM/IMT program (i.e.) if the expected completion date = last year and if no postponmet to the propram has been made. In the latter case, the revised year of completion should be compared with last year, and accordingly the indicator appears for evaluation	Percentage change in Annual Maximum Water Avaialbility in the transferred schemes with respect to the initial maximum water availability
343	D09011	Number of full time jobs employed in the management of the irrigation scheme before the transfer took place (under the public management) Note: This should be filled by the regional officer, as such information will mostly be at the regional office	Number of full time jobs employed in the management of the irrigation scheme before the transfer took place (under the public management)
344	D09012	Cumulative Number of full time jobs created by the WUA up to a reference Year, related to the management of the transferred irrigation schemes under PIM/IMT program. This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data starts to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note: this data is entered once at the beginning (when data entry for the first year takes place) .	Cumulative Number of full time jobs created by the WUA up to a reference Year, related to the management of the transferred irrigation schemes under PIM/IMT program.
345	D09013	Number of full time jobs created during last year by the WUA, related to the management of the transferred irrigation schemes under PIM/IMT program	Number of full time jobs created during last year by the WUA, related to the management of the transferred irrigation schemes under PIM/IMT program
346	R09011	Cumulative number of full time jobs created up to last year by the WUA, related to the management of the transferred irrigation schemes under PIM/IMT program	Cumulative number of full time jobs created by the WUA in question, related to the management of the transferred irrigation schemes under PIM/IMT program up to last year.
347	R09012	Percentage of the increase between the total number of full time jobs created up to last year by the WUA, with respect to those used under the public management (before the transfer took place)	Percentage of the increase between the total number of full time jobs created up to last year by the WUA, with respect to those used under the public management (before the transfer took place)
348	D09021	Total number of local maintenance contractors working in the transferred schemes before the transfer took place (under the public management) Note: This should be filled by the regional officer, as such information will mostly be at the regional office	Number of local maintenance contractors working before the transfer

349	D09022	Cumulative number of new local maintenance contractors working in the transferred schemes of the WUA up to a reference Year. This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the time when PIM/IMT started) for which no figures for this variable have been yet accumulated. example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure will be entered once, and then the application would start accumulating the data as more annual data get entered. Note: this data is entered once at the beginning (when data entry for the first year takes place) .	Cumulative number of new local maintenance contractors working in the transferred schemes of the WUA up to a reference Year.
350	D09023	Number of new local maintenance contractors working in the transferred schemes of the WUA in question during last year	Number of new local maintenance contractors working in the transferred schemes of the WUA in question during last year
351	R09021	Cumulative number of new local maintenance contractors working in the transferred schemes of the WUA in question up to last year.	Cumulative number of new local maintenance contractors working in the transferred schemes of the WUA in question up to last year.
352	R09022	Percentage increase in the new local maintenance contractors working in the transferred schemes of the WUA in question up to last year with respect to their number before the transfer Note: This indicator is evaluated only at the end of PIM/IMT program (i.e.) if the expected completion date = last year and if no postponement to the program has been made. In the latter case, the revised year of completion should be compared with last year, and accordingly the indicator appears for evaluation	Percentage of increase in the new local maintenance contractors established up to last year with respect to their number before the transfer