

Section I: Identification and JP Status Adaptation to Climate Change to Sustain Jordan's MDG Achievements

Semester: 2-11

Country Thematic Window MDGF Atlas Project Program title	Jordan Environment and Climatic Change Adaptation to Climate Change to Sustain Jordan's MDG Achievements
Report Number Reporting Period Programme Duration Official Starting Date	2-11
Participating UN Organizations	* FAO * UNDP * UNESCO * WHO
Implementing Partners	 * Ministry of Agriculture (MOA) * Ministry of Education (MoE) * Ministry of Environment and Tourism * Ministry of Health (MOH) * Ministry of Water and Irrigation (MWI) * National Center for Agricultural Research and Extension (NCARE) * Parliament * Water Authority of Jordan (WAJ) * Water supply companies * World Conservation Union (IUCN) * Zarqa Governorate, and local municipalities and communities



Budget Summary

Total Approved Budget	
UNDP	\$873,333.00
WHO	\$1,600,000.00
UNESCO	\$699,000.00
FAO	\$827,667.00
Total	\$4,000,000.00
Total Amount of Transferred To Date	
UNDP	\$669,916.00
WHO	\$1,108,334.00
UNESCO	\$536,328.00
FAO	\$633,109.00
Total	\$2,947,687.00
Total Budget Commited To Date	
Total Budget Commited To Date UNDP	\$131,904.00
-	\$131,904.00 \$449,385.00
UNDP	
UNDP WHO	\$449,385.00
UNDP WHO UNESCO	\$449,385.00 \$72,000.00
UNDP WHO UNESCO FAO	\$449,385.00 \$72,000.00 \$89,996.00
UNDP WHO UNESCO FAO Total	\$449,385.00 \$72,000.00 \$89,996.00
UNDP WHO UNESCO FAO Total Total Budget Disbursed To Date	\$449,385.00 \$72,000.00 \$89,996.00 \$743,285.00
UNDP WHO UNESCO FAO Total Total Budget Disbursed To Date UNDP	\$449,385.00 \$72,000.00 \$89,996.00 \$743,285.00 \$434,976.00
UNDP WHO UNESCO FAO Total Total Budget Disbursed To Date UNDP WHO	\$449,385.00 \$72,000.00 \$89,996.00 \$743,285.00 \$434,976.00 \$307,637.00



Donors

As you can understand, one of the Goals of the MDG-F is to generate interest and attract funding from other donors. In order to be able to report on this goal in 2010, we would require you to advise us if there has been any complementary financing provided for each programme as per following example:

Please use the same format as in the previous section (budget summary) to report figures (example 50,000.11) for fifty thousand US dollars and eleven cents

Туре	Donor	Total	For 2010	For 2011	For 2012
Parallel		\$0.00	\$0.00	\$0.00	\$0.00
Cost Share		\$0.00	\$0.00	\$0.00	\$0.00
Counterpart		\$0.00	\$0.00	\$0.00	\$0.00

DEFINITIONS

1) PARALLEL FINANCING – refers to financing activities related to or complementary to the programme but whose funds are NOT channeled through Un agencies. Example: JAICA decides to finance 10 additional seminars to disseminate the objectives of the programme in additional communities.

2) COST SHARING – refers to financing that is channeled through one or more of the UN agencies executing a particular programme. Example: The Government of Italy gives UNESCO the equivalent of US \$ 200,000 to be spent on activities that expand the reach of planned activities and these funds are channeled through UNESCO.

3) COUNTERPART FUNDS - refers to funds provided by one or several government agencies (in kind or in cash) to expand the reach of the programme. These funds may or may not be channeled through a UN agency. Example: The Ministry of Water donates land to build a pilot 'village water treatment plant' The value of the contribution in kind or the amount of local currency contributed (if in cash) must be recalculated in US \$ and the resulting amount(s) is what is reported in the table above.

Beneficiaries

Beneficiary type	Targetted	Reached	Category of beneficiary	Type of service or goods delivered
Local Population and professionals	1,000	800	Citizens/Men	Capacity Building for Climate Adaptation
Local Population and professionals	600	400	Citizens/Women	Capacity Building for Climate Adaptation
Government organization, Academia, and research	35	30	National Institutions	Support With Environment Laws and Policies
Government organization, Academia, and research	35	30	National Institutions	Capacity Building for Climate Adaptation
Local governments and NGOs	70	60	Local Institutions	Capacity Building for Climate Adaptation



Beneficiary type	Targetted	Reached	Category of beneficiary	Type of service or goods delivered
Local governments and NGOs	70	60	Local Institutions	Capacity Building for Management of Natural Resources
Education	20	15	Schools	Capacity Building for Climate Adaptation
Education	20	15	Schools	Training on Management of Natural Resources



Section II: JP Progress

1 Narrative on progress, obstacles and contingency Measures

Please provide a brief overall assessment (1000 words) of the extent to which the joint programme components are progressing in relation to expected outcomes and outputs, as well as any measures taken for the sustainability of the joint programme during the reporting period. Please, provide examples if relevant. Try to describe facts avoiding interpretations or personal opinions

Pleases describe three main achievements that the joint programme has had in this reporting period (max 100 words)

At the policy level: Developed a climate change adaptation programme in the area of water resources for the major Basin in Jordan (ZRB) and updated the health strategy of the country to include Climate change adaptation into them.

Piloting: Started the implementation of water safety plans at the 5 selected sites (almost 80% complete) and a groundwater protection programme at one local community. A drought resistance wheat species was also developed in cooperation with NCARE.

Awareness and Education: Developed and tested a training manual on adaptation to climate change in the area of food security and held 12 workshops for training, capacity development, and awareness raising for professionals, farmers, local institutions, etc.

Progress in outcomes

Outcome 1: Progress is being made towards achieving Outcome 1: sustained access to improved water supply sources despite increased water scarcity induced by climate change through supporting the efforts towards maintain the Percentage of water supply systems meeting requirements of the national drinking water quality standards through implementing DWSPs at 5 sites in close and full collaboration with the MOH and WAJ.

Outcome 2: Progress is made towards achieving outcome 2: Strengthening the adaptive capacity for health protection and food and water security to climate change under water scarcity conditions through the developed Policies, programmes, and adaptive capacities to manage environmental, health and food security issues from the threat posed by climate change under water scarcity conditions. Health vulnerability assessment and national adaptation programmes, strategies, and plans of action for health protection from climate change have been developed.

Progress in outputs

Output 1.1: Current status of DWQMS and pertinent legislations has been assessed with stakeholders' consultation. DWQMS is completed and the final report is due on 8 February 2012. Water Safety Plans (WSP) Implementation in the 5 demonstration site is 80% completed and the deliverables are due end of April 2012. ToT plan and training content have been designed for concerned parties on DWQMS and WSP management is completed and plans for institutionlaization are furnished with the concerned authorities. Critical laboratory equipment have been procured and installed in MOH water testing labs in the country to secure adequate readiness in the national counterpart responsible for the surveillance function within the new water quality management system.

Impact of implementation of Output 1.1: The Drinking water operator and regulator are achieving a compliance percentage >99.0% for the last three years (2009-2011), Increased awareness of the national counterparts to adopt the preventative approach in the Water Quality management and assure top management understanding and commitment. National counterparts developed a road map for scale-up and sustainability. The program through implementation of output 1.1 enhanced the Capacity development and the utilization of collective knowledge in climate change related programmes.



Output 1.2: Stage I on the review evidence on Minimum Households' Water Security Requirements for Health Protection is completed and the documents are under processing for the second stage of data collection and generation of evidence- surveys which will lead to the development of national policy and issue legislative policy instruments on securing supply of minimum water requirements for health. This will be a national management tool and will be used as a guide at both regional and global levels.

Impact of implementation of Output 1.2: Provide the evidence on the minimum household water quantity to be supplied to ensure good health. The developed tools and methodologies will serve as a national policy tool and a regional and global guide to be followed.

Output 2.1: Risk assessment inventory on the impact of CC on food security and crop productivity was conducted and the potential constraints (risks) were identified and mechanisms to overcome or alleviate the effect of these constrains were suggested, alternative adaptation measures were identified, tested and selected, (prioritized), adaptation options and improvements of crop productivity were identified and tested, target stakeholders at all levels (from local to decision-making) were identified; subjects and materials to be promoted were prepared for the different target groups, developed training manuals on CC adaptation measures to increase food production; designed and executed national community awareness campaign; selecting site for the model farm using treated wastewater as adaptation to climate change; prepared the terms of reference for the model farm (pilot intervention site); the RFP to request contracting services for pilot measures and interventions will be floated during February 2012.

Impact of output 2.1: Capacities to adapt to CC in the area of food security is strengthened, and model farms for the treated wastewater reuse established for training and demonstration.

Output 2.2: A regional five-day training workshop on negotiations skills for collaborative transboundary water resources management and water conflict negotiations for water officials from Iraq, Palestine and Jordan was held in Amman. A training course on Integrated Flood Risk Management and Flood Disaster Preparedness Planning and Emergency Response held by experts from the China Institute for Water Resources and Hydropower Research (Beijing) reached 17 specialists from the Ministry of Water and Irrigation, the Royal Society for the Conservation of Nature (RSCN), the Royal Scientific Society (RSS) and master students from water and environment related disciplines. A training course on Water Evaluation and Planning (WEAP) led by experts from the Stockholm Environment Institute reached 17 specialists from the Ministry of Water and Irrigation through an in job training supporting the Ministry in the updating of the National Water Master Plan (NWMP) using the Water Evaluation and Planning (WEAP) methodology. The International Center for Water and Environmental Research at Al Balqa Applied University developed by the project is now fully operational and was adopted by the Ministry of Water and Irrigation through an in rigition and consultants from Gansu Research Institute for Water Conservancy, China will start implementation in March 2012. Development of extra-curricular education package on water education for primary education, based on the water education manual of the International Foundation on World Wide Water Education (Project WET) continued. Finalization of education package and ToT series is expected to in July 2012.

Impact of implementation of output 2.2: Better knowledge of stakeholders from the government, academia and research institutions on the current water supply and demand situation and the impact of climate change. Enhanced abilities of key stakeholders in integrated water resources management, water policy related planning methodologies and transboundary water management to respond to climate change and water scarcity related issues in Jordan. Research institutions are able to build national capacities on the preparation of environmental impact assessments.

Output 2.3: The national teams formulated have acquired the necessary skills to undertake the assessment of health vulnerability and adaptation to climate change. Institutional arrangements, which started in May 2010, are in place and the processes towards the development of a National Adaption Strategy and Plan of Action to Protect Health from Climate Change are underway. The program got the top management commitment through the formation of the Steering Committee. Implementation of activities started in March 2011.



Impact of implementation of Output 2.3: he program got the top management commitment through the formulation of the steering committee. The national technical teams formulated from the senior MoH staff have demonstrated the necessary skills to undertake the assessment. The Institutional arrangements are in place and the processes towards the strategy development are underway.

Output 2.4: Direct and indirect impacts of CC on the water quantity and quality in the Zarqa River Basin have been assessed (June, 2011). Socio economical impacts of CC on water resources assessed, assessment tool for prioritization of all possible adaptation to climate change interventions has been developed and tested. The Task force (6 members) and another 4 MoEnv officials trained on tools and methodologies on these aspects for widespread upscaling into other areas of the country. A programme on climate change adaptation developed and submitted to the MoEnv. Pilot interventions programme has started in collaboration with one local community, and 2 NGOs (IUCN and Al Kfier women association).

Impact of implementation of output 2.4: The capacities to adapt to CC of stakeholder are strengthened in the ZRB and nationwide paving the way upscaling for CC adaptation programmes, and establishment of adaptation to CC showcase for training.

Measures taken for the sustainability of the joint programme

In order to internalize the activities and results of the JP, Task forces within the relevant government institutions were formed to ensure the ownership and to facilitate sustainability of the programme's outcomes (JP results will be looked at as a result of the organization efforts and activities). Development of the National Strategies, Plans of Action, and programmes in the area of health, environment, IWRM, and food security towards increased adaptation to Climate Change (Output 2.1, 2.3, and 2.4) is carried out by the implementing partners to ensure sustainability of the outputs and institutionalization of the adaptation processes within the overall work process of these ministries. The successful establishment of the Water Environment, and Energy center in Al Balqa Applied University will lead to sustaining the intended capacity strengthening efforts of the JP in the country. The center is contributing to Building the capacity of the local communities. To foster national ownership, the PMC is now chaired by the Secretary General of the Ministry of Water and Irrigation (MWI). The MWI has in 2010 integrated Climate Change issues into its mandate and created a climate change and environment unit that is approved by the authorities in December of 2011, which among other things will follow up on the activities of the JP.

To help in future upscaling of the JP outcomes the piloting interventions (the 5 DWSP sites, AI Kfeir GW protection programme, and the 4 model farms) have been designed in cooperation with key stakeholders and implementing partners to cater for the needs of all. The pilot sites will be used as demonstration sites to serve as show cases to insure acceptance and replicability in other locations and areas in the country.

Are there difficulties in the implementation?

Coordination with Government Management. 2. Governance/Decision Making 4.Accountability Joint Programme design

What are the causes of these difficulties?

External to the Joint Programme

Briefly describe the current difficulties the Joint Programme is facing

Initially there was some delay in the coordination with government institutions due to lack of understanding of the complexity of the management arrangements of the JP such as the host ministry (The MWI has been identified to be the host ministry in 2008 by the GOJ represented by the the MOPIC. This nomination was communicated to UN agencies at



that time)and the role of the implementing agencies.

These difficulties are gradually being resolved in part due to better involvement of government institutions in the JP activities.

The JP original design did not take into consideration that some of the activities could have been and implemented jointly rather than carrying out similar activities with different focus areas for each component. One example is the pilot interventions activity.

The design of piloting interventions for WHO, UNDP, and FAO required intensive and iterative consultation among the implementing agencies and partners. Agreeing on the selected sites that satisfy the required criteria (adaptation measures, farms, communities, and safe handling of treated wastewater). the necessity to attain sustainability of the JP outcomes particularly in relation to the some pilot site selection has also consumed a considerable time.

Briefly describe the current external difficulties that delay implementation

Delays for many of the JP activities were inevitable because of: 1) programme experienced start-up delay of at least six month for mobilization before actual implementation 2) unforeseen delays due to changes within the leadership of ministries such as the Ministry of Health which has resulted in the delay of signing agreements for the activities start up.

In addition there was a delay in receiving the authorization for the budget revision of the UNESCO's component from the Project Management Committee and the National Steering committee; the revision was approved at the end of May, 2011 resulting in a three-month delay to start the implementation of the project.

Explain the actions that are or will be taken to eliminate or mitigate the difficulties

The CTAs are now meeting at the JP office more frequently (at least once a week). The JP CTAs are present in the JP office two days per week to coordinate and discuss different activities of the JP. WHO has assigned part of their team to the JP and developed a management plan to compensate for the delay and bring the programme implementation up to schedule. The management plan is under the supervision of the agency's own staff. WHO has also outsourced the implementation of JP activities that need special expertise in the field of WSP and vulnerability assessment of direct and indirect health effects of climate change. WHO will bring international experts in the areas of WSP and vulnerability assessment of direct of climate change to bridge the national knowledge and expertise gap and participate incapacity building.

Regarding coordination with the government, members of the PMC, including those representing the government, are now fully informed of the roles and responsibilities of each other, and this ensures that the scope for conflict and/or duplication of efforts is not likely to occur in the future. In addition the joint budget and joint advocacy plan developed in collaboration with the UN agencies has strengthened the concept of Joint Programming. The development of this plan has enabled the different partners to acknowledge the significance of acting as one.

The JP team has updated its workplan and developed an improvement plan in a manner that will accelerate the implementation process while maintaining quality of deliverables. This will be achieved by accelerating the implementation of some activities, combining some activities of many outputs into one consultation (activities 3 to 5 of output 2,4), and sharing some activities between two consultants (piloting activity of output 2.1 and 2.4). An updated M&E plan (attached) is now also in place especially as related to the indicators list.

However, the JP team has applied for a one year no cost extension and developed a consolidated work plan that extends to the end that period. This extension will be required to compensate for the delays incurred in 2009. The no cost extension will also be needed to finalize the implementation of some activities especially those related to the piloting sites, internalization and institutionalization with the implementing partners systems, and most importantly sustainability of the JP outcomes. The activities for sustainability of the JP programme is detailed in the sustainability plan attached to the no cost extension request. The new work and sustainability plan will be closely monitored by the components Task forces, the PMC, and the NSC.

2 Inter-Agency Coordination and Delivering as One



Is the joint programme still in line with the UNDAF?

Yes true No false

If not, does the joint programme fit the national strategies? Yes

No

What types of coordination mechanisms

CTAs are continuously meeting in the JP office at the MWI.

All activities of the different outputs are jointly looked to and analyzed by the team.

TORs for all activities are reviewed by all CTAs to insure no duplication of the program activities.

The JP has also developed the Joint Budget for the main office and a Joint Advocacy and communication plan agreed by the CTAs and the PMC and shared by the participating agencies.

The JP is now holding the PMC and the NSC meetings jointly. In addition it is agreed by the NSC that each NSC institution will assign a technical person to attend the PMC meetings.

The NSC has also taken a decision to have heads of participating agencies meeting to better coordinate among them.

Please provide the values for each category of the indicator table below

Indicators Bas Curre Means of verification elin nt e Value

Collection methods



Number of managerial practices (financial, procurement, etc) implemented jointly by the UN implementing agencies for MDF-F JPs	37	55	Decision by the of NSC regarding the proposed Joint budget Joint advocacy approved by the PMC and NSC 11 RFPs development and approval by the JP CTAs for Output 1.1, 1.2, 2.1, 2.3, 2.4.	NSC MOM PMC MOM Release of RFP
			 Conduct Climate change conference through the outputs supervised by UNESCO. Preparation for and conducting the Inception and an achievements dissemination workshops 6 Lender Donor Water group Meetings. 25 Stakeholders meetings for all outputs. 10 training sessions for all outputs 	Link of the conference and Proceeding of the conference JP brochures and media coverage (TV and newspapers) MOM of the Meetings
				Workshops inception reports
Number of joint analytical work (studies, diagnostic) undertaken jointly by UN	15	22	Joint Awareness visits to 5 universities and 1 visit to the BAU center	
implementing agencies for MDG-F JPs			6 visits to the UNDP, FAO piloting sites.	
			6 meetings with spanish funded projects working in the area of IWRM, food security and organic farming.	
			5 Preparation meetings for the upcoming showcase workshop of the JP	
Number of joint missions undertaken				

Number of joint missions undertaken jointly by UN implementing agencies for MDG-F JPs



3 Development Effectiveness: Paris Declaration and Accra Agenda for Action

Are Government and other national implementation partners involved in the implementation of activities and the delivery of outputs?

Not InvolvedfalseSlightly involvedfalseFairly involvedfalseFully involvedtrue

In what kind of decisions and activities is the government involved? Policy/decision making Management: service provision

Who leads and/or chair the PMC?

The Secretary General (SG) of the Ministry of Water and Irrigation(MWI) is the sole chair of the PMC.

Number of meetings with PMC chair

At least once a week

Is civil society involved in the implementation of activities and the delivery of outputs?

Not involved false Slightly involved false Fairly involved false Fully involved true

In what kind of decisions and activities is the civil society involved?

Policy/decision making Management: other, specify

Civil society is represented at the PMC.

IUCN is one NGO that participate in the implementation of the piloting programme.

Are the citizens involved in the implementation of activities and the delivery of outputs?

Not involvedfalseSlightly involvedfalseFairly involvedfalseFully involvedtrue



In what kind of decisions and activities are the citizens involved? Policy/decision making Management: service provision Management: other, specify

The piloting excersize involves citizens and farmers in the management and maintenance of the pilot site.

The citizens are involved in the selection process and the implementation of adaptation to climate change interventions. This will be insured through reviewing with them the suggested sites and interventions and then selecting the appropriate ones.

They will also be involved in the monitoring and evaluation of these pilot interventions.

Citizens are also invited into all stakeholders meetings and workshops.

Where is the joint programme management unit seated? National Government

Current situation

Relevant Civil Society Organisations in Jordan are:

- Development non-governmental organisations (JES, JSSD, FOE, eCASE, etc.)
- Community groups (local cooperative farmer groups in Zarqa areas and the Jordan Valley, Local cooperative groups at different villages, etc.)
- Women's organisations, (Jordanian National Commission for Woman, Jordan Women Union, Arab women organization of Jordan)
- 'Faith-based organisations.
- ^r Professional associations,(Jordan Engineers Association, Jordan Agricultural engineers, etc.)
- Trade unions, (Jordan Chamber of industry and Jordan Chamber of Commerce)
- ^{*} Registered charities (red crescent)
- ' Self-help groups.
- 'Business associations,
- Coalitions and advocacy groups (Mercy corps)

Civil society is represented in the Programme Management Committee by one NGO, Jordan Society for Sustainable Development (JSSD).

JSSD participation will be instrumental in including the interest of Civil Society in the decision making process of the programme.

They were invited to the IW and 19 representatives were present in the IW and have actively participated in the discussions.

4 Communication and Advocacy



Has the JP articulated an advocacy & communication strategy that helps advance its policy objectives and development outcomes?

Yes true No false

Please provide a brief explanation of the objectives, key elements and target audience of this strategy Key objectives:

1. Increased awareness and support for the JP on adaptation to Climate Change in Jordan, MDGs, and the MDG Fund, both at policy and general public level.

2. The JP is leveraged for increased MDG results and citizen engagement in JP activities, MDG-F and MDG processes.

3. Improved accountability and transparency towards all through identifying MDG-F as a trusted partner and Accountability to citizens in pilot areas is strengthened.

Key elements;

'Media: Alliances with media established to regularly cover development stories/issues on MDGs and the JP on related goals.

Key Dates and Events: Increased level of awareness on key issues related to Climate Change, Climate Change adaptation efforts of the JP and MDG F issues and link the advocacy efforts of various national actors including UN, private sector, civil society and government.

Citizen Engagement and Civil Society Participation: Linkages have been made with select civil society organizations for the JP advocacy

United Nations Communications Group and Coordination: UN Communications Group provides a platform for joint communication, advocacy and mobilization in line with One

UN, the JP goals and objectives, and the MDGs

'Eublic Outreach and Communication: Awareness materials designed (brochures, information notes, newsletters, human interest stories, TV spots, radio spots) and distributed

along appropriate channels.

Support to Citizen Engagement and Civil Society: Citizen groups/networks strengthened to have more effective participation in the JP activities, towards chieving MDG policy and practice.

Support to Local Governments: Partnership strengthened between local governments as it relates to JP goals.

'Partnerships: Wide range of partnerships has been established in support of the JP activities and themes.

Target audience of this strategy are mainly the general population, the local communities, CBOs, professional unions, farmers, the local government, research institutions, and decision makers.

What concrete gains are the adovacy and communication efforts outlined in the JP and/or national strategy contributing towards achieving?

Increased awareness on MDG related issues amongst citizens and governments

Increased dialogue among citizens, civil society, local national government in erlation to development policy and practice

New/adopted policy and legislation that advance MDGs and related goals

Estabilshment and/or liasion with social networks to advance MDGs and related goals

Key moments/events of social mobilization that highlight issues

Media outreach and advocacy



What is the number and type of partnerships that have been established amongst different sectors of society to promote the achievement of the MDGs and related goals?

Faith-based organizations Social networks/coalitions 8 Local citizen groups 8 Private sector 9 Academic institutions 11 Media groups and journalist 8 Other

What outreach activities do the programme implement to ensure that local citizens have adequate access to information on the programme and opportunities to actively participate?

Focus groups discussions Household surveys Use of local communication mediums such radio, theatre groups, newspapers Open forum meetings Capacity building/trainings



Section III: Millenium Development Goals Millenium Development Goals

Target 7.C: Halve, by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation

JP Outcome	Beneficiaries	JP Indicator	Value
Sustain access to improved water supply sources despite increased water scarcity induced by climate change	10	 1.Increase % of urban households with reliable access to minimum water requirements for health to 75% in the pilot sites. 2.Maintain the current status in the face of additional water stress 	5.0

Target 7.D: By 2020, to have achieved a significant improvement in the lives of at least 100 million slum dwellers

protection and food security to climate change under water scarcity conditions. health, for environment, and for food security are developed and submitted along with capacity development needs to government 2.Health vulnerability assessment completed & national strategy and plan	JP Outcome	Value
of action for health protection from climate change completed	protection and food security to climate	ood itted needs t

Additional Narrative Comments

Please provide any relevant information and contributions of the programme to de MDGs, whether at national or local level

Please provide other comments you would like to communicate to the MDG-F Secretariat





Section IV: General Thematic Indicators

1 Environmental and Climate Change policy development and mainstreaming

1.1 Number of sectors or mainstreaming laws, policies or plans supported by the joint programme

1.1.1 On Environmental Management

Policies

National 3 Local 1

Laws

National Local

Plans

National 6 Local 1

1.1.2 On Climate Change

Policies

National 2 Local 1

Laws National

Local



Plan National Local

1.2 Please briefly provide some contextual information on the law, policy or plan and the country/municipality where it is (or will be) implemented

Policies

National: Upgrade policies related to health, food security, and water to include climate change issues, and develope guidance on minimum household water requirements to protect human health.

Local:

develop a policy frame work for climate change adaptation for the ZRB

Plans

National: Develop a national action plan for health protection from climate change and develop 5 drinking water safety plans.

Local: develop an action plan for adaptation to climate change in the ZRB.

1.3 Sector in which the law(s), policy(ies) or plan(s) is/are focused

Water management Sustainable management of natural resources Climate change: adaptation

Comments

All the public management and legal/institutional arrangements serve to the whole nation. Therefore all the efforts within the Joint Programme on laws, strategies, policies and plans will directly affect the whole population of the Country

1.4 Number of citizens and/or institutions that the law(s), policy(ies) or plan(s) directly affects

All the public management and legal/institutional arrangements serve to the whole nation. Therefore all the efforts within the Joint Programme on laws, strategies, policies and plans will directly affect the whole population of the Country



Citizens

Total2.5 millionsUrban2.2 millionsRural0.3 million

National Public Institutions

Total50Urban30Rural20

Local Public Institutions

Total10Urban5Rural5

Private Sector Institutions

Total 15 Urban 12 Rural 3

1.5 Government budget allocated to environmental issues before the implementation of the Joint Programme

National Budget NA

Total Local Budget(s) NA

Comments

1.6 % variation in government budget allocated to environmental policies or programmes

National Budget % Overall NA



% Triggered by the joint programme NA

Local Budget

% Overall NA % Triggered by the Joint Programme

NA

NA

Comments

1.7 Government budget allocated to Climate Change before the implementation of the Joint Programme

National budget NA

Total Local Budget(s) NA

Comments

1.8 % variation in government budget allocated to Climate Change from the beginning of the Joint programme to present time

National Budget% OverallNA% Triggered by the Joint Programme

Local Budget % Overall NA % Triggered by the Joint Programme NA

Comments

2 Institutional capacities for environmental management developed and civil society participation increased



2.1 Number of km2 of land newly managed by a natural resource plan supported by the Joint Programme

Total of the area managed in Km2

By habitat (Km2)

Tropical forest Temperature forest Savannah Shrub land Grassland Wetlands Rocky areas Desert Sea/oceans Artificial terrestrial

2.2 Number of institutions, civil servants and citizens trained by the JP to take informed decisions on environmental issues (excluding climate change)

Public institutionsTotal30

Private Sector Institutions Total 15

NGO/CBO

Total 15

Civil Servants

 Total
 400

 Women
 150

 Men
 250

Citizens

Total 120



Women 40 Men 80

2.3 Number of citizens supported by the JP that have organised themselves to effectively participate in natural resource management initiatives

Total200Women50Men150Ethnic groups

2.4 Number of successful environmental service payment mechanisms that have been promoted by the JP

Total NA No. of beneficiaries

Sectors of application

Financing source

2.5 Has the JP had an impact on the development of national and local policies or regulations that recognize schemes of Payment for Ecosystem Services as an environmental management tool, How?

NO

3 Climate change adaptation and mitigation and development of institutional capacities



3.1 Number of Km2 and type of habitat covered by mechanisms and/or actions to adapt to climate change (implemented with the support of the joint programme

The geographical unit that can be used for this question is "River Basin" in the context of MDGF 1680 Joint Programme, and the surface area of Seyhan River Basin is 20,600 km2

Tropical Forest Temperature Forest Savannah Shrub land Grassland Wetlands Rocky Areas Desert Artificial terrestrial (pastoral land, arable land, etc.)

3.2 Adaptation measures supported by JP that are addressing the following climate change issues

Land degradation Soil fertility decrease Alteration of rain patterns

3.3 Based on available data, what kind of improvements on the population's wellbeing have been achieved through JP supported adaptation measures?

Health Vulnerability Improved livelihoods

3.4 Number of individuals and institutions with improved capacities to adapt to climate change or mitigate it



Adaptation

Public institutionsTotal35

Private Sector Institutions Total 15

Civil Servants

Total500Women200Men300

Citizens

Total500Women200Men300

3.5 Interventions funded by the JP to improve capacities of individuals and institutions to adapt to Climate Change or mitigate it

Adaptation

Capacity building Equipment Knowledge transfer

3.6 Number of clean development mechanism projects registered to mitigate climate change

CO2 emissions captured through conservation None



CO2 emission reduction through the use of renewable energies CO2 emission reduction through the use of clean technologies No

None None

Joint Programme M&E framework

Expected Results (Outcomes & outputs)	Indicators	Baseline	Overall JP Expected target	Achievement of Target to date	Means of verification	Collection methods (with indicative time frame & frequency)	Responsibilities	Risks & assumptions
Outcome 1: Sustained access to improved water supply sources despite increased water scarcity induced by climate change	Percentage of water supply systems meeting requirements of the national drinking water quality standards	95% (Report on Rapid Assessment of Drinking Water Quality, 2006)	Maintain the current status in the face of additional water stress	The Drinking water operator and regulator are achieving a compliance percentage >99.0% for the last three years (2009-2011)	Report on Rapid Assessment of Drinking Water Quality 2009- 2011 Monthly and annual reports of WAJ Quality Sector	Conduct survey & rapid Assessment of Drinking Water Quality (WHO protocol)	WHO/MOH/ MWI/WAJ	Commitment of national authorities to establish national framework for water safety Risks: Legislative and institutional setup and national resources are not committed by government.
Output 1.1 National drinking water quality management system at central and periphery levels upgraded	 Revised drinking water quality Management System (DWQMS) 	The current DWQ system is not responsive to expected climate change impacts nor it addresses preventative risk management and is rather reactive.	Revised available DWQMS	Revision on the current practises completed in July 2011 and recommendations of the required DWQMS are in the final stages with extensive stakeholder consultation meetings including in their baseline analysis the 6 WSP demonstration projects that are already almost completed	DWQ system documents	Review of national standards on Water Quality by PTC Quality monitoring procedures at government laboratories Frequent visits to existing labs Conduct survey	WHO/ MOH	Availability of financial resources to upgrade systems beyond the project

Expected Results (Outcomes & outputs)	Indicators	Baseline	Overall JP Expected target	Achievement of Target to date	Means of verification	Collection methods (with indicative time frame & frequency)	Responsibilities	Risks & assumptions
		The current capacity of the MoH network of laboratories need to be strengthened	MOH network of DWQ laboratories (central and peripheral) upgraded	Laboratory Equipment and supplies are in place and operational	Laboratory Equipment and supplies are in place and operational			
	2. No. of water safety plans (WSP) developed	There is one demonstration water safety plan (WSP) developed in 2006	5 WSPs for different sources developed	The Implementation of activities related to WSP in the 5 demonstration site is 80% completed and the deliverables are due end of march 2012	WSP documents approved by government agencies	Assessment of WSP documents Collected for Mid- term review	WHO/MOH/ WAJ	Commitment of governmental agencies Availability of experts in water quality management
	3.No. of male and female staff trained on the upgraded DWQ system	Limited and weak capacity currently exists in MOH network	At least three local institutions staff per target area trained (3 areas)	No. of male to female staff encountered and trained on the upgraded DWQ system is in balance and reflect the ration of female employees to male at the quality sector of 25%	Logs of attendees of training courses Training materials Feedback report on training courses	Collected for Annual Reports on Capacity Development component. Analysis of feedback on training courses.	WHO/MOH	Cooperation between training institutions and MOH Adoption of DWQ proposed procedures

Expected Results (Outcomes & outputs)	Indicators	Baseline	Overall JP Expected target	Achievement of Target to date	Means of verification	Collection methods (with indicative time frame & frequency)	Responsibilities	Risks & assumptions
	4. Roadmap for implementing WSPs throughout Jordan developed and disseminated	Preliminary road map was developed and disseminated	Updated road map developed and disseminated	Updating the already developed road map is under progress with the participation of the national counterparts	National Roadmap is in place			
Output 1.2 Sustainable and reliable supply of minimum water requirements for health protection	5. An adopted national policy on minimum household water security requirements for health Protection	No policy on minimum water requirements for health	Policy on minimum water requirements for health available	The literature review, methodology and tools and expert consultation meeting and expert review are completed and the final report is to be used for the next stage to implement the house hold surveys in 2700 sample randomly distributed in the Kingdom which is planned to start March 2012. Based on the survey results the national Policy for minimum requirements for health will be developed by the national counterparts with the technical support of WHO.	Policy document that determines the minimum water requirement	Collected for Mid- term and Final review of project.	WHO/MWI/MOH / WAJ	Willingness of government to develop legislation and policy Conflict between water users (domestic vs. agriculture)

Expected Results (Outcomes & outputs)	Indicators	Baseline	Overall JP Expected target	Achievement of Target to date	Means of verification	Collection methods (with indicative time frame & frequency)	Responsibilities	Risks & assumptions
Outcome 2: Strengthened adaptive capacity for health protection and food security to climate change under water scarcity conditions	Policies and adaptive capacities developed to manage environmental health and food security issues from the threat posed by climate change under water scarcity conditions	No policy on adaptation to climate change exists in Jordan	Policy options document	Policy options documents for Adaptation to CC for the water resources of the Zarqa River basin, food security, and health are developed and submitted to Government.	Review through Project Evaluation submission of policy options to concerned authorities	A national meeting to launch and announce the The policy options was held in October, 2011, The policy documents and draft strategies widely disseminated by Q3, 2012	UNDP UNESCO and FAO, and WHO	National government have the capacity to develop, implement, and manage the national strategy.
	Development of health vulnerability assessment, national adaptation strategy and plan of action for health protection from climate change	None existent	Health vulnerability assessment completed & national strategy and plan of action for health protection from climate change is available	Institutional arrangements are in place and the processes towards the strategy development are underway	Policy document and reports published	Hold a national meeting to launch and announce the national strategy by the end of Q3, 2012	WHO/MOH	National government have capacity to implement the WHO Regional Committee resolution
Output 2.1 Improved rural sector adaptive capacity for climate variability and change	An adopted list of adaptation measures to reduce climate change impacts on food productivity	Adaptive mechanisms to reduce impact of CC not existed	Three adaptive mechanisms to reduce the impact of CC adopted	Five Adaptation measures were identified tested and prioritized	Adaptation plans documents Field reports	Adaptation field tests Collected for Mid- term and Final review of project. Field visits	FAO/MOA/Local Communities	Acceptance of the stakeholder institutions to adopt the mechanisms.

Expected Results (Outcomes & outputs)	Indicators	Baseline	Overall JP Expected target	Achievement of Target to date	Means of verification	Collection methods (with indicative time frame & frequency)	Responsibilities	Risks & assumptions
	Model farms established using treated wastewater	On-farm technical approaches are not existing	3 technical options developed for safe use of treated wastewater in agriculture	Three Technical options were prepared and will be implemented in first quarter of 2012	Document including the adaptive mechanisms Assessment report Progress reports	Visits to the target area. Conduct Inventory	FAO/MOA/Local communities and farmers	Acceptance of the stakeholder institutions to adopt the mechanisms.
	Tested adaptation measures to improve crop and livestock productivity with treated wastewater irrigation	Policy framework is not available	Three policy options suggested to support the adaptation mechanisms	Three policy options for adaptation mechanisms were recommended for relevant stakeholders	List of policy options suggested	Collected for Mid- term and Final review of project.	FAO/MOA	Suggested policies not adopted
	No. of stakeholders trained on the operational approaches	Limited number of trained personnel on the operational approaches	2 persons per stakeholder institution and 1 person per pilot farm to be trained	Training of stakeholders from institutions (8 institutions) started in December 2011 and is currently progressing and will include farmers in the next phase (first quarter 2012).	Feedback report on training programs Training material manuals	Assessment of training conducted. Progress reports	FAO/MOA/Local communities	Willingness and commitment of the stakeholder institutions to participate
Output 2.2 Improved national institutional and community capacity in integrated water resources	Number of male and female trained in IWRM	Jordan does not have a well developed IWRM national plan, but has major elements such as a water strategy and policies	 7- 10 stakeholder institution are trained 500 persons from the stakeholder are trained 	About 82 female and 65 male trained	Training materials List of institutions trained on IWMR	Assessment of training course feedback report Progress reports approval by PMC Survey stakeholder	UNESCO/MWI Training institutions UNDP	Willingness and commitment of the stakeholder institutions to participate

Expected Results (Outcomes & outputs)	Indicators	Baseline	Overall JP Expected target	Achievement of Target to date	Means of verification	Collection methods (with indicative time frame & frequency)	Responsibilities	Risks & assumptions
management (IWRM)	Adopted water	Weak integration	No. of concepts of	The following	No. of brochures printed database website developed assessment report Curricula that	satisfaction	UNESCO/MWI/	Adoption of training
	Adopted water management and climate change adaptation measures to be implemented at national level.	Weak Integration of the concepts of IWRM in curricula No Guidelines and manual on IWRM	No. of concepts of IWRM introduced in the curricula	Measures were implemented: -flood risk assessment -water evaluation and planning climate change	Guidelines and Manual of IWMR Syllabus of university courses	Reporting by the education institutions on progress and adoption of curricula	MOE	Adoption of training material by training institutions and MWI
	An operational environment and water resources center for advocacy education and capacity building.	Center for advocacy, education and capacity building does not exist	Establish environment and water resources center for advocacy education and capacity building.	One centre established and operated (Al Balqa Applied University)	Document on center mandate Advocacy and awareness strategy document for the center	Collected for Mid- term and final evaluation.	UNESCO/MWI	Financial sustainability of the center. Adoption by MWI as an awareness advocacy arm
Output 2.3 Adaptation measures, by health sector and other sectors, to protect health from climate	A National Adaptation Strategy and Plan of Action to Protect Health from Climate Change is developed and	There is no national strategy on protecting health from climate change. Institutionalized adaptation	Assessments of health vulnerability and adaptation to climate change relevant to six climate-sensitive health issues are conducted.	The national teams formulated have acquired the necessary skills to undertake the assessment of health vulnerability and	List of identified gender- disaggregated health risks induced by climate change List of identified	Review of adaptation plans for progress reporting to NSC	WHO/MOH	Adoption of plans by government institutions High cost of adaptation plans

Expected Results (Outcomes & outputs)	Indicators	Baseline	Overall JP Expected target	Achievement of Target to date	Means of verification	Collection methods (with indicative time frame & frequency)	Responsibilities	Risks & assumptions
change are institutionalized	disseminated within the health sector and other concerned sectors.	interventions not available at present No national early warning system on health and climate change	Adaptation plans to protect human health from climate change are available Assist in establishing a national early warning system on health and climate change	adaptation to climate change. Institutional arrangements, which started in May 2010, are in place and the processes towards the development of a National Adaption Strategy and Plan of Action to Protect Health from Climate Change are underway. The program got the top management commitment through the formation of the Steering Committee. Implementation of activities started in March 2011	adaptation mechanisms Database Forecast indicators Prediction models	Conduct a test on scenarios and potential responses by the third year		Availability of data as input to the system. Commitment of government agencies to release existing data
Output 2.4 Adaptation capacity of Zarqa River Basin to climate	Implemented approved strategies for reforming legal, policy and	CC adaptation is not included into water resources management strategies,	One strategy or policy options for water resources management upgraded to include	A climate adaptation programme for the ZRB was developed and	Strategy or policy option draft and submitted to GOJ	Progress reports, MOMs, and the draft policy or strategy and the institutional framework at the	UNDP/MOEnv	Commitment of governmental agencies Availability of experts in climate

Expected Results (Outcomes & outputs)	Indicators	Baseline	Overall JP Expected target	Achievement of Target to date	Means of verification	Collection methods (with indicative time frame & frequency)	Responsibilities	Risks & assumptions
change is piloted and strengthened	institutional frameworks to include CC adaptation in the water resources management	policies, and institutional framework	CC adaptation drafted and submitted to GOJ for adoption. One institutional framework for water resources management upgraded to include CC adaptation drafted to GOJ for adoption. Draft and submit Initiatives to have Adaptation to climate change mainstreamed into relevant national action plans and policies	submitted to the MoEnv. MoEnv will be using this adaptation programme to develop a strategy for adaptation to CC with all stakeholders with the support of the JP.	One institutional framework drafted and submitted to GOJ	end of the JP.		change adaptations
	Formulated and approved climate change adaptation measures implementation programme and plan for the ZRB	No CC adaptation plan and/or structured programmes for the ZRB available	Climate change adaptation measures implementation programme and plan for the ZRB formulated and approved by the GOJ			MOMs, approved programme and plan	UNDP/MOEnv	Availability of financial resources
	Piloted adaptation measures by communities in ZRB		At least 2 sites for the implementation of adaptation to CC measures	A local community for piloting adaptation is selected. The consultants have	Documentation on adaptation sites, Field visits reports	Conduct field visits. Monitoring and evaluation reports.	UNDP/MOEnv	Willingness of government to develop legislation and policy

Expected Results (Outcomes & outputs)	Indicators	Baseline	Overall JP Expected target	Achievement of Target to date	Means of verification	Collection methods (with indicative time frame & frequency)	Responsibilities	Risks & assumptions
				started the piloting exercise. The piloting will include at least two sites for the implementation of adaptation to CC measures	Progress reports			Policy options to adaptation to CC adopted by policy makers

Expected Results (Outcomes & outputs)	Indicators	Baseline	Overall JP Expected target	Achievement of Target to date	Means of verification	Collection methods (with indicative time frame & frequency)	Responsibilities	Risks & assumptions
	Documented and disseminated knowledge about ZRB results	No documented knowledge of CC adaptation structured programmes for the ZRB available	At least 2 successful cases are documented and upscaled or out- scaled	The following case studies are documented: 1) Impact of climate change on water resources of the ZRB. 2) Socio economical impacts of climate change in the ZRB. 3) Methodology for identification, prioritization, and selection of appropriate adaptation to CC measures at the ZRB. 4) development of an adaptation to CC programme at the ZRB	Case studies documentation	Collect case studies and disseminate among stakeholders	UNDP/MOEnv/M OE and local communities	Capacity of training institutions. Willingness of local stakeholders Weak cooperation or willingness to participate by key stakeholders Conflict of interest among implementing agencies

Annex 1 (Table 2) Summary of Results framework

		I despite the increase in water so			1			
JP Outputs	SMART Outputs and	Reference to Agency priority or	Impleme	Indicative activities for each Output		allocation an	d indicative	e time
	Responsible	Country Programme	nting		frame*			
	UN Organization		Partner		Y1	Y2	Y3	TOTAL
Joint Programme Outco	me <u>1</u> : Sustained access to im	proved water supply sources de	spite increas	ed water scarcity induced by climate ch	nange			
Output1.1: National	National drinking water	WHO/Jordan	мон	1. Upgrade the national drinking water	66979	43614	34268	144861
drinking water quality management system at	quality (DWQ) management system upgraded. WHO	Country Program 08-09WHO/CEHA Biennial		quality (DWQ) system for comprehensive national coverage:	4688	3053	2398	10139
central and periphery	system upgraded. The	Programme 08-09		Review and assess current national				
level is strengthened				DWQ systems including standards, and				
Indicators:				management practices at both the national and sub regional level and				
No. of operational water				Suggest needed upgrading on the DWQ systems				
safety plans resilient to climate change				 Conduct a stakeholders (decision 				
No. of drinking water				makers from MOH, MWI, WAJ,				
quality (DWQ) systems				legislators, Jordan Institute for Meteorology, water companies,				
upgraded.				consumer protection associations				
No. of training courses conducted.				experts (water treatment and distribution, environmental,				
conducted.				hydrologists, etc), research institutions,				
Baselines:				and NGO's) consultations to map their feedback on the recommended				
there are no operational water safety plans				modification on the DWQ systems.				
the current DWQ system				• Revise the national DWQ standards and				
is not responsive to				management practices (including intensive consultation with different				
expected climate change impacts				stakeholders).				
Limited and weak				 Commission revision of the national DWQ management system based on 				
capacity				preventive management and water				
				safety planning.				
				 Develop legislation tools governing the management of DWQ system. 				
				 Introduce the revised DWQ management system 				
	5 operational water safety	WHO/Jordan	мон	2. Develop and implement 5	65421	65421	65421	196263
	plans for different sources	Country Program 08-09		demonstration water safety plans (3				

developed. WHO	WHO/CEHA Biennial Prog.		urban & 2 rural)	4579	4579	4579	13737
	08-09		 Develop technical guidance and manuals on the development of Water Safety Planning. 				
			• Develop training program packages on WSP.				
			 select the 5 demonstration sites for the implementation of the water safety plans (3 urban and 2 rural) 				
			 Select technical service providers (consultants) to develop the demonstration water safety plans. 				
			• Conduct stakeholder's workshop.				
			• Develop protocols for the implementation of WSP at the selected demonstration sites.				
			• Commission technical service providers to develop the water safety plans for the demonstration systems.				
			• Train the owners of the five water systems on the on the implementation of the water safety plans				
			 Undertake monitoring of the implementation of the WSP at different sites. 				
			• Revise the water safety protocols manuals, implementation procedures.				
			 Disseminate & introduce the revised WSP protocols, manuals, and procedures to all stakeholders. 				
All DWQ manageme of MoH &, WAJ at o and regional levels	central Country Program 08-09	мон	 Design and implement training programme on DWQ management system for all levels 	56075	56075	56075	168225
water companies st trained. WHO	aff 09		 Undertake training needs assessment for the introduction of the new DWQ management system this would include 	3925	3925	3925	11775
			three levels of professionals namely, decision, managers, and operators. Form concerned stakeholders (MOH, MWI, water companies, water authorities,).				
			 Develop and plan the training program. 				
			• Develop the training modules.				
			• Conduct training of trainers programs.				
			• Launch training program (at least 9 workshops 3 per sub-region).				

		an MOH rogram 08-09 A Biennial Prog. 08-	 4. Provide critical supplies and equipment for DWQ laboratory networks of the Ministry of Health: Assess the current capabilities of network of DWQ labs for the Ministry of Health laboratories at the central and governorate level in view of the requirements of the new system. Identify the critical supplies needed to insure adequate performance according to the new DWQ management system. Procurement of the supplies to the network of MOH labs. 	51402 3598	51402 3598	51402 3598	154206
Output 1.2 Sustainable and reliable supply of minimum water requirements for health protection is provided to all citizens Indicators: % of urban household with reliable access to minimum water requirement for health under water scarcity conditions induced by climate change. No. of inventories conducted to determine access to water requirements. No. of legislative policy instruments developed Baselines: no policy on minimum water requirements for health in 2004 the percent of urban households with reliable access to	epidemiological studies in Amman conducted. • An ecological study in 20 rural communities <i>WHO</i>	rogram 08-09 A Biennial Prog. 08-	 5. Identify minimum household water security requirements for health protection. Review of evidence on water requirement for health both nationally and globally. Develop methodologies for establishing and generating evidence to support recommendations on minimum water requirements for health. Convene expert consultations on the development of methods to identify minimum water requirements for health through: Convene expert consultations on the development of methods to identify minimum water requirements for health. Generate evidence on minimum water requirements for health through: Conduct two ecological studies, one in Amman another in Ajloun Conduct two epidemiological studies in At least twenty rural communities Consolidate the evidence on minimum water requirements for health and generate draft document Convene a scientific group consultation to review the recommendations and coument on minimum water requirements for health 	93458	93458	88785	275701 19299
	National policy on minimum • WHO/Jord	an MOH	6. Develop national policy and issue	0	18692	32710	51402

minimum water requirements for health was 50%. No evidence -based guidance available on minimum water requirement for health	water quality requirements for health is issued and necessary supporting documentation for legislation is developed WHO	Country Program 08-09 • WHO/CEHA Biennial Prog. 08- 09 • protection and food security to	climate cha	 legislative policy instruments on securing supply of minimum water requirements for health Use the scientific evidence on minimum water requirement for health protection to formulate a national policy on minimum water requirement for health protection. Convene three stakeholders consultations and workshop to build consensus around on the national policy on minimum water requirements for health (Develop and implement a programme for awareness raising with regards to the amended policies and legislation; 	0	1308	2290	3598
Output 2.1 Rural sector adaptive capacity for climate variability and change is improved Indicators: No. of risk assessment studies to identify the impact climate change and water scarcity on food productivity.	3 risks from climate change and water scarcity on food productivity assessed. FAO	FAO's programme on Climate change.	MOA	 7. Assess the risks from climate change and water scarcity on food productivity. Sub activities: Conduct risk assessment inventory. Identify the potential constrains (risks). Suggest mechanisms to overcome or alleviate the effect of these constrains. Training stakeholders on the suggested mechanisms. Implement the suggested mechanisms on the pilot site. Disseminate the information about 	72600	71155	70727	214482
No. of adaptive mechanisms for reduce the impact of climate change adopted. No. of on-farm technical approaches developed for safe use of treated wastewater in agriculture.	3 adaptation plans developed. <i>FAO</i>	FAO's programme on Climate change.	ΜΟΑ	 the most feasible mechanisms 8. Identify and screen adaptation measures to reduce climate change impacts on food productivity: Identify alternative adaptation measures. Conduct adaptation measure test. Select the appropriate measure. Implement the selected measures on farm. Up scale and out scale the most suitable and economically sound mechanisms. 	41837	42586	0	84423

No. of policy options suggested to support the adaptation mechanisms. No. of stakeholders trained on the operational approaches Baselines: No information available on risk of climate change on food production in Jordan	3 adaptation options tested and operated. FAO	FAO's programme on Climate change.	ΜΟΑ	 9. Identify and test adaptation options and improvements of crop / livestock for increased productivity in irrigating with treated wastewater: Suggest the adaptation options for crop / livestock productivity improvement. Test the options on-farm. Select the suitable options. Develop a legal framework, policy and incentive mechanisms to support these options. Implement the selected options and disseminate information about the most suitable options. 	50932	101252	0	152184
Adaptive mechanisms to reduce impact of CC not existed On-farm technical approaches are not existing Policy framework is not available Limited number trained personal on the operational approaches	3 awareness campaigns implemented. FAO	FAO's programme on Climate change.	ΜΟΑ	 Design and implement community awareness campaign, with focus on women farmers, on climate change adaptation measures. Sub activities: Identify the target stakeholders at all levels (from local to decision- making). Identify the stakeholder's information needs by conducting assessment meetings (focus group meetings, personal interviews, etc). Identify the subjects and prepare the materials to be promoted. Conduct the local community and policy maker awareness campaign. 	70620	59826	69657	200103

	5 model farms established.	FAO's programme on Climate	MOA	11. Establish model farms using	70727	51574	54174	176475
	FAO	change.		treated wastewater as adaptation				
				to climate change for capacity				
				building (jointly with WHO).				
				Sub activities: • Select a suitable farm (according to				
				• Select a suitable farm (according to certain criteria).				
				Prepare the infrastructure for the				
				farm.				
				 Train the stakeholders on the most 				
				appropriate practices for food production including conserve				
				water, increase food production,				
				health related to food production,				
				impact on soil characteristics and				
				introducing of alternative crops.Design and conduct the experiments				
				and the tests.				
				 Analyze the results and disseminate 				
				information about the successful cases.				
				 Create incentive mechanisms for 				
				farmers adopting selected				
				adaptation option.				
Output 2.2	At least 5 training programs	UNESCO Jordan-Country	MWI	12. Design and implement a training	146010	132990	102300	381300
National institutional and	developed. UNESCO	programming document (UCPD)UNESCO Programme and		programme in integrated water resources management for the	10990	10010	7372	28372
community capacity in integrated water	UNESCO	Budget 08-09		Ministry of Water and Irrigation,				
resources management		Medium-Term strategy 08-13		national NGOs, and stakeholders.				
is improved		World water assessment		This activity will include:				
		programme		 Identification of the target groups at 				
Indicators:				all levels (i.e Local community level, technical level, decision				
No. of training and				making leveletc).				
capacity building courses				 Assess the stakeholder's 				
conducted.				information needs.				
No. of institutions				 Asses the existing technical capacity of stakeholders and identify the 				
participated.				gaps.				
par colpacear				 Design the training programs and 				
No. of resources				appoint the trainers.Conduct the training programs.				
management concepts				 Conduct the training programs. Assess the impact of the training 				
introduce in the				programs.				

curriculum.	At least 6 research projects	UNESCO Jordan-Country	MWI	13. Design and implement community-	39060	31925	22320	93305
	conducted and 1 database	programming document (UCPD)		base research projects on climate	2940	2403	1680	7023
Center organization chart	designed. UNESCO	UNESCO Programme and		change adaptation.				
developed and the center		Budget 08-09		Develop climate change adaptation				
established.		Medium-Term strategy 08-13		strategy and action plan through a				
		World water assessment		participatory approach.				
Baselines:		programme		Identify the problems facing the local community in implementing				
				local community in implementing the action plan.				
Jordan does not have a				 Prepare guidelines for community- 				
well developed IWRM				base pilot projects on climate				
national plan, but has				change adaptation.				
major elements such as				 Develop the project selection 				
a water strategy and				criteria and methodology.				
policies				 Train the local community institution leaders on project 				
				development and management.				
				Call for proposals and select the				
limited participation of				eligible proposals.				
stakeholder institutions				 Develop monitoring and evaluation 				
in IWRM				methodology /plan.				
					28830	25110	20460	74400
Weak integration of the				14. Improve database in integrated	2170	1890	1540	5600
concepts of IWRM in				water resources management in				
curricula				arid and semi arid areas.Develop data management system				
				(Database) for climate change				
No Guidelines and				information that can integrate all				
manual on IWRM				available data on different				
Cartan fan a huana				institutions.				
Center for advocacy				Identify mechanisms for information avshange among different				
education and capacity				exchange among different institutions.				
building is not exist				 Identify the role of each institution 				
				in monitoring and management of				
				information.				
				 Develop and conduct training on 				
				data management for stakeholder				
				institutions and local community				
				leaders.				

Integrated water resource	es • UNESCO Jordan-Country	MWI,	15. Develop water education and	41385	36735	0	78120
management introduced		ΜοΕ΄	awareness programme focusing in	3115	2765		5880
the school curriculum fro	m • UNESCO Programme and		curriculum, resources manuals,				
grade 1-11. UNESCO	Budget 08-09		training of trainers and teacher-in-				
	 Medium-Term strategy 08-13 		service training for the Ministry of				
	World water assessment		Education with the close				
	programme		partnership of the Ministry of Water				
			and Irrigation.				
			This activity will include the				
			followings:				
			At school level:				
			 Develop curriculum and extra 				
			curriculum activities in climate				
			change adaptation on school level.				
			 Involved parents and teachers in 				
			the activities related to climate change adaptation specially in the				
			pilot project site.				
			phot project site.				
			At University level:				
			Develop undergraduate courses.				
			 Encourage graduate students to 				
			under take post-graduate studies on				
			climate change management and				
			adaptation by providing them with				
			incentives.				
			At local community lovely				
			At local community level: • Assess the training needs and				
			Assess the training needs and knowledge level on adaptation to				
			climate change.				
			Identify the training and knowledge				
			gap and suggest the proper training				
			and public awareness programs.				
			Consult the local community about				
			these programs.				
			 Conduct the training and public awareness program in cooperation 				
			with the local community				
			institutions.				
			institutions.				

	One environmental and water resource centre established. UNESCO	 UNESCO Jordan-Country programming document (UCPD) UNESCO Programme and Budget 08-09 Medium-Term strategy 08-13 World water assessment programme 	MWI	 16. Design and establish one environmental and water resource centre for advocacy education and capacity building. This activity will include: Identify the mission, aim and the strategy of the center. Suggest the organization chart and the job description of the management and technical staff. Conduct consultation meeting and discuss all the above suggested steps. Establish the center. 	9300 700	7440 560	6510 490	23250 1750
	One cooperative framework Developed. UNESCO	 UNESCO Jordan-Country programming document (UCPD) UNESCO Programme and Budget 08-09 Medium-Term strategy 08-13 World water assessment programme 	MWI	 Develop a cooperative framework on the criteria for sustainable management of shared water resources including transboundary water resources. This activity includes: Review the current management system frameworks and agreements governing shared water resources. Identify gaps (areas of weaknesses in the management systems) and suggest the needed modifications. Conduct stakeholder meeting to discuss the suggested mechanisms and select the most suitable. Develop a new framework and present it to the decision makers. 				
Output 2.3 Adaptation measures, by	National document is published on health	 WHO/Jordan Country Program 08-09 	мон	18. Conduct an assessment of direct and indirect risks to health from	74766	46729	18692	140187
health sector and other sectors, to protect health	vulnerability to climate change	WHO/CEHA Biennial Prog. 08- 09		climate change	5234	3271	1308	9813

					r	1		
from climate change are	WHO			This activity will be achieved through:				
institutionalized				• Review of health risks from climate				
				change identified worldwide with focus				
Indicators:				on regions with similar conditions as				
No. of adaptation				Jordan				
				• Develop protocols, methodologies, and				
measures adopted by				indicators to assess health vulnerability				
each sector.				to climate change in Jordan				
				Conduct health vulnerability analysis				
No. of sectors adopted				and prioritize health risks to climate				
the adaptation measures.				change				
				• Dissemination of findings of the health				
No. of music she was dither				vulnerability assessment to the health				
No. of projects used the				sector and other concerned sectors				
adaptation measures.				such as water, agriculture, and				
				transport				
Early warning system to	A national strategy for	WHO/Jordan	мон	19. Screen and prioritize adaptation	23364	23364	14019	60748
monitor and assess	health protection from	Country Program 08-09	non		25504	23307	14019	00740
health impacts of climate				strategies, by the health sector and				
	climate change is published	• WHO/CEHA Biennial Prog. 08-		others to protect health from	1636	1636	981	4252
change established and	WHO	09		climate change				
operated				This activity will be achieved through:				
				Review of available adaptation				
Baseline:				strategies to mitigate health risks from				
no institutionalized				climate change				
adaptation interventions				Development of adaptation strategies to				
at present				protect health from identified health				
at present				risks from climate change in Jordan				
				• Integration of the adaptation strategies				
				within the overall strategy of the health				
There is no national				sector and other concerned sectors				
strategy on protecting				such as water, agriculture, and				
health from climate				transport				
change.				Training of staff on these adaptation				
change.				strategies				
				• Assembling a national board to				
adaptation projects are				coordinate the implementation of the				
not existed				adaptation strategies by the health				
				sector and others				
There is no national early				Dissemination of the adaptation				
warning system on				strategies widely to the stakeholders at				
health and climate				all levels through workshops, media,				
				NGO's, etc.				
change	A potional strategy for	WILLO /landam	MOU	· · · · · · · · · · · · · · · · · · ·	14010	46720	46720	107477
	A national strategy for	WHO/Jordan	мон	20. Develop and implement adaptation	14019	46729	46729	107477
	health protection from	Country Program 08-09		strategies to protect health from				
	heatwaves is implemented	WHO/CEHA Biennial Prog. 08-		the negative effects of heat waves	981	3271	3271	7523
	WHO	09						

3 projects for adaptations to protect health from climate	 WHO/Jordan Country Program 08-09 	МОН	 This activity will be achieved through: Review of adaptation strategies to protect health from heat waves available worldwide Develop response strategies to heat waves in Jordan which are classified into two categories: a) Health system strategies for curative services: through establishing heat wave treatment facilities in emergency health centers, training of medical staff, and public awareness of first aid procedures for heat waves treatment b) Protective strategies: through working with municipalities to increase shaded areas, and the ministry of labor to alter work schedule for outdoor workers during heat waves. Also work with the Jordan Engineers Association to promote and train engineers on better home design to protect against heat waves, and modification of the code for buildings to cope with the expected heat waves Design and construction of a model low cost home as an educational facility for better home design to protect from heat waves Assembly of a meeting for experts the health sector institutions and other concerned parties to review the recommended strategies to protect health from heat waves Development of a work plan for the implementation of these strategies Training of staff in the health sector and other concerned sectors on the implementation of these strategies Dissemination of these strategies 	9346	37383	14019	60747
change are developed and disseminated to donor	WHO/CEHA Biennial Prog. 08- 09		risk environmental conditions induced by climate change	654	2617	981	4253

A national early warning	• WHO/Jordan	мон	 This will be achieved through Selection of three priority direct or indirect health risks from climate change in Jordan other than heat waves and water scarcity Design and preparation of project documents, with concerned stakeholders, to protect health from identified risks Promote these projects to be adopted by the concerned governmental bodies Arrange and conduct meetings an seminars with donors to raise funds for the implementation of these projects 22. Establish a national early warning 	14019	84112	37383	135514
system to monitor and assess health impacts of climate change established. WHO	Country Program 08-09 • WHO/CEHA Biennial Prog. 08- 09		 system to monitor and assess health impacts of climate change This will be achieved through: Construction of a database for internationally reported health impacts as a result of climate change and development of trends or patterns of expected health risks from climate change Use of models to develop a linkage between locally available data from climate monitoring units and data from units for monitoring health indicators Establishment of a health forecast unit that issues warnings to health sector institutions and other concerned parties 	981	5888	2617	9486

Output 2.4 Adaptation capacity of Zarqa River Basin to climate change is piloted and strengthened. Indicators: No. of climate change impact studies on water availability and quality in Zarqa River Basin conducted. No. of opportunities and barriers to adaptation to climate change identified.	At least 4 climate change risks to water availability and quality in Zarqa River Basin identified and assessed. (UNDP)	<u>CP: 3.1.</u> National Institutional and community capacities strengthened for more sustainable management of water resources	MOEnv.	 23. Assess direct and indirect climate change risks to water availability and quality in Zarqa River Basin. Review water availability and quality issues in ZRB Conduct trend analysis for streamflow, groundwater levels, water quality parameters Construct climate change scenarios Develop the water availability and water quality in Zarqa River Basin Suggest adaptation measures for water availability and water quality and water quality Integrate the proposed adaptation measures in national policies and action plans 	17256	20417	8417	46090
 No. of policy options for adaptation to climate change adopted by policy makers. No. of training courses and workshops conducted. No. of local community members participated. No. of farms adopted the adaptation measures. No. of successful cases documented and upscale or outscale. No. of linkages to regional and global experiences established. Baselines: Limited number of cc impact studies on water resources availability and 	3 opportunities and 5 barriers to adaptation to climate change risks assessed (UNDP)	CP3.2. Environmental Policies aligned to global conventions and national implementation capacities enhanced	MOEnv.	 24. Assess opportunities and barriers to adaptation to climate change risks Review opportunities and barriers to adaptation to climate change risks Identify opportunities and barriers to adaptation to climate change risks Assess opportunities and barriers to adaptation to climate change risks Document opportunities and barriers to adaptation to climate change risks 	30000	57000	0	87000

 quality in Zarqa River basin studies on adaptation to climate change are not sufficient No policy options for adaptation to climate change Limited no. of training courses and workshops Little awareness on CC issues within the community None of the farms in Jordan implementing any adaptation measures to climate change Information on national successful cases is not available Knowledge from Zarqa River Basin is not developed. Linkages to regional and global experiences are of non existence 	One strategy for legal and institutional frameworks approaches and tools for adaptation to climate change and IWRM in the Zarqa River basin reviewed.(UNDP) The national water policies and action plans for adaptation to climate change reviewed (UNDP)	CP: 3.1. National Institutional and community capacities strengthened for more sustainable management of water resources	MOEnv.	 25. Formulate appropriate legal and institutional strategies and the needed interventions (strategy implementation plan) for Zarqa River Basin Review legal and institutional framework approaches and tools for adaptation to climate change and IWRM in the Zarqa River basin. Devise a reform strategy for legal and institutional framework approaches and tools for adaptation to climate change and IWRM in the Zarqa River basin. Devise a reform strategy for legal and institutional framework approaches and tools for adaptation to climate change and IWRM in the Zarqa River basin. 26.Review ongoing national water policies, strategies, and action plans relevant to climate change and IWRM. Review national water policy and action plan as well as other related policies Identify gaps in these policies as related to climate change vulnerability and adaptation Propose policy options for adaptation to climate change to be adopted by policy makers Testing the policy options on all levels (local community to decision maker levels) Conduct national workshop to discuss the proposed policy options for adaptation in national policies and strategies 	25000	100000	25000	150000
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3 local institutions and 100 individuals participating in the capacity building programme (UNDP)	CP3.2. Environmental Policies aligned to global conventions and national implementation capacities enhanced	MOEnv.	 27. Upgrade local and national capacities and capabilities to respond adequately to the needs and requirements for adaptation to climate change and IWRM using effective participatory approaches and tools. Review local and national capacities for adaptation to climate change and IWRM Identify gaps and weaknesses in the local and national capacities for adaptation to climate change and IWRM Propose solutions and means to enhance the local and national capacities for adaptation to climate change and IWRM Propose solutions and means to enhance the local and national capacities for adaptation to climate change and IWRM 	25000	30000	13000	68000
		MOEnv.	 28. Apply and implement pilot measures and interventions as stipulated in the strategy and implementation plan Propose a set of promising pilot measures and interventions Design pilot measures and interventions Select the most economic pilot measure and intervention Implement and apply pilot measure and intervention Evaluate the performance of the pilot measure and intervention Document the gained experiences from implementation of such pilot measure and intervention 	108820	150000	92000	350820

Total	3 successful cases are documented and upscale or out scale. 2 linkages to regional and global experiences established.	CP: 3.1. National Institutional and community capacities strengthened for more sustainable management of water resources	MOEnv.	 29. Document , share and disseminate knowledge and transfer technologies generated from Zarqa River basin on the local and national levels, and establish linkages to regional and global experiences Document the knowledge and transfer technologies generated from Zarqa River basin related to climate change and IWRM Share climate change and IWRM knowledge and transfer technologies generated from Zarqa River basin on the local and national levels Conduct training courses on topics related to climate change and IWRM Disseminate climate change and IWRM knowledge and transfer technologies Establish networks and linkages to regional and global experiences related to climate change and IWRM 	108090	90000	100000	298090
Total					1,407,049	1,632,305	1,087,313	4,126,667