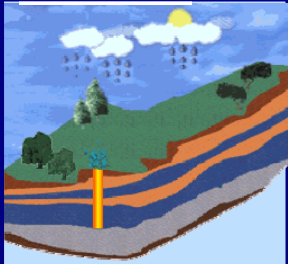




Palestinian National Authority  
Palestinian Water Authority



السلطة الوطنية الفلسطينية  
سلطة المياه الفلسطينية



Sustainable Management of the West Bank and Gaza Aquifers

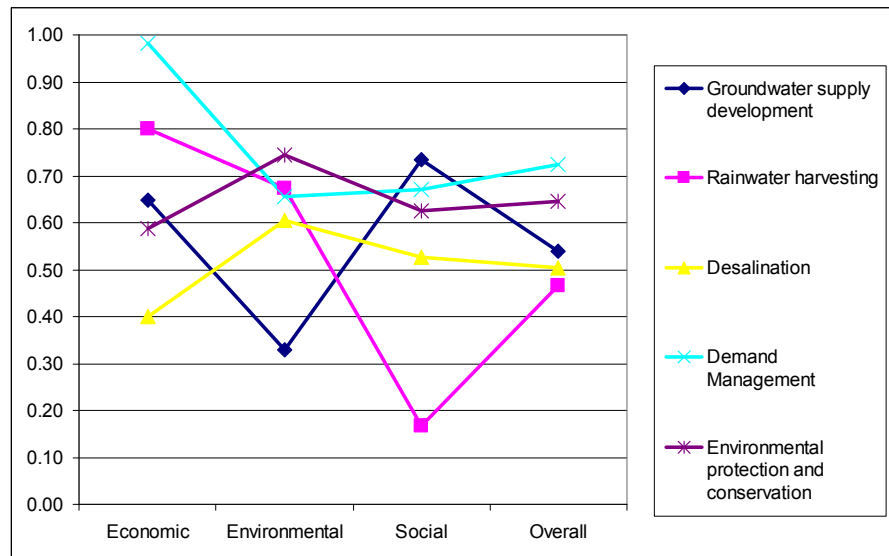
UNIVERSITY OF  
NEWCASTLE



Department for  
International  
Development  
**DFID**

## Definition of Sustainability Indicators for Water Resources Management Options in Palestine

3<sup>rd</sup> level indicators for the West Bank



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<p><b>The SUSMAQ Project</b></p> <p>The aim of the project is to increase understanding of the sustainable yield of the West Bank and Gaza aquifers under a range of future economic, demographic and land use scenarios, and to evaluate alternative groundwater management options. The project is interdisciplinary, bringing together hydrogeologists and groundwater modellers with economists and policy experts. In this way, hydrogeological understanding can inform, and be informed by, insights from the social sciences. The results of the study will provide support to decision-making at all levels in relation to the sustainable yield of the West Bank and Gaza aquifers.</p> <p>The project runs from November 1999 to October 2004, and is a partnership between the Palestinian Water Authority, University of Newcastle upon Tyne. The project is funded by the United Kingdom Government’s Department for International Development (DfID).</p>	<p><b>Project Results Dissemination</b></p> <p>The project disseminates its results through the project website <a href="http://www.ncl.ac.uk/susmaq">www.ncl.ac.uk/susmaq</a>, newsletters, workshops, technical meetings, publications in conference and scientific journals.</p>
<p><b>Bibliographical Reference</b></p> <p>This report should be referenced as: SUSMAQ (2005). Definition of Sustainability Indicators for Water Resources Management Options in Palestine. Report No. SUSMAQ - SUS #38 V2.1, Sustainable Management of the West Bank and Gaza Aquifers, Palestinian Water Authority (Palestine) and University of Newcastle upon Tyne (UK).</p> <p><b>Authors:</b> Geoff Parkin, Manal Hatem-Moussallem, Enda O’Connell, Felipe Contreras-Jimenez, Miles Burton, Alan Nicol, Yasser Shalabi, Amjad Aliewi, Muath Abu Saada, Khalil Saleh, Alan McDonald</p>	

## CONTENTS

<b>1</b>	<b>INTRODUCTION.....</b>	<b>1</b>
<b>2</b>	<b>SUSTAINABILITY INDICATORS.....</b>	<b>2</b>
2.1	DEFINITION .....	2
2.2	PURPOSE .....	2
2.3	AGGREGATION AND GROUPING OF INDICATORS .....	3
2.4	CRITERIA FOR SELECTION OF INDICATORS.....	3
2.5	DATA SHEETS.....	4
<b>3</b>	<b>SUSMAQ INDICATORS FOR THE WEST BANK AND GAZA .....</b>	<b>6</b>
3.1	PARTICIPATORY APPROACH TO SELECTION OF INDICATORS.....	6
3.2	DEFINITION OF INDICATORS .....	6
3.3	SUMMARY OF INDICATORS FOR SUSMAQ.....	8
3.4	SUMMARY OF ADDITIONAL INDICATORS .....	9
3.5	EVALUATION AND REVIEW OF INDICATORS .....	10
<b>4</b>	<b>REFERENCES.....</b>	<b>12</b>

## LIST OF TABLES

<b>Table 1</b>	<b>Indicators to be used in SUSMAQ project .....</b>	<b>9</b>
<b>Table 2.....</b>	<b>Additional indicators for potential use by the Palestinian water sector .....</b>	<b>10</b>

## APPENDICES

- Appendix A International examples of indicators**
- Appendix B Consolidated list of basic indicators from October 2003 workshops**
- Appendix C Definitions of social indicators**
- Appendix D Definitions of environmental indicators**
- Appendix E Definitions of economic indicators**

# 1 Introduction

A Multi-Criteria Analysis Tool (**SUSMAQ Report#56; SUSMAQ Report#57**) has been developed by the SUSMAQ project as part of a sustainability assessment methodology (**SUSMAQ Report#41**). Application of the MCA Tool requires the definition of a set (library) of sustainability indicators. This report contains a review of the use of indicators in the international literature, description of how indicators were chosen for this study, and definitions for the list of indicators which are evaluated for a demonstration case study within the SUSMAQ project. The indicators are based on participatory approaches involving a wide range of stakeholders in SUSMAQ workshops (**SUSMAQ Report#34**).



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