

CURRICULUM VITA

2012

Dr. Amer Salman

Current Academic Rank: **Full Professor**
Current University: **University of Jordan**
Current Faculty: **Faculty of Agriculture**
Current Department: **Department of Agricultural Economics
and Agribusiness**
Specialization: **Water resources and Environmental
Economist**
Current Position: **Professor of water Economics**



Permanent Address: P.O. Box: 13204, Amman 11942 Jordan
Telephone:- 00962-7- 99203222

Email: asalman@ju.edu.jo and/or Drsalmanamer@yahoo.com

ACADEMIC QUALIFICATIONS

First University Degree: (*Bachelor's or equivalent*)

Degree: **Bachelor's Degree. (B.Sc.)**, Date degree awarded: 1987

Faculty: **Faculty of Agriculture. University of Jordan, Amman / Jordan**

Specialization: **Agricultural Economics and Extension**

Second University Degree: (*Master's or equivalent*)

Degree: **Master's Degree. (M.Sc.)**, Date degree awarded: 1990

Faculty: **Faculty of Agriculture. University of Jordan, Amman / Jordan**

Specialization: **Agricultural Economics**

Title of Thesis: **Economic Analysis and Feasibility Study of Dairy Cattle Farms in Amman-Balqa Region in the Hashemite Kingdom of Jordan**

Third University Degree: (*Doctorate or equivalent*)

Degree: **Doctorate Degree (PhD)** Date degree awarded: 1994

Faculty: **Faculty of Agricultural Sciences, University of Hohenheim, Stuttgart /Germany**

Specialization: **Economics of Water and Irrigation**

Title of Thesis: **On the Economics of Irrigation Water Use in the Jordan Valley**

LANGUAGES

Language proficiency	Reading			Writing			Conversation		
	Excellent	Fair	Weak	Excellent	Fair	Weak	Excellent	Fair	Weak
Arabic	X			X			X		
English	X			X			X		
German	X				X		X		

COMPUTER USE

Name of Software	Use of Software
XA, BLP88, LINDO, TORA	Mathematical Programming and Operation Research
MS Word 2003	Typing and acquiring graphics from other software's
Microsoft Office Software	Econometric techniques and building macros and For project appraisal (Economic and financial Feasibility Studies), graphics & Mathematical Programming, For the purposes of lecturing using Data Show
SPSS	Statistical Analyses and advanced techniques in regression analyses.
TSP	For advanced Econometric and Statistical Analyses

EMPLOYMENT HISTORY

Institution (place of work)	Period		Job Title (Academic Rank)	Nature of Work	Type of Work
	From	To			
University of Jordan	Sep 1994	Jan 1995	Lecturer PhD	Teaching and Research	Full Time
University of Jordan	Feb 1996	Sep 2001	Assistant Professor	Teaching and Research	Full Time
University of Jordan	Oct 2001	April 2007	Associate Professor	Teaching and Research	Full Time
University of Jordan	Sep 2004	Sep 2007	Dean's Assistant	Development Affairs	Full Time
University of Jordan	Dec 2009	Nov 2010	Department's Chairman	Teaching, Research and Management	Full Time
University of Jordan	June 2010	August 2011	Director of water and Environment Research and Study Center	Management	Full Time
Scientific Support Fund - Ministry of Higher Education	May 2012	Present	Head of Water & Environment Committee	Research	Part Time
Scientific Support Fund - Ministry of Higher Education	May 2012	Present	Member in the Scientific Environment Committee	Research	Part Time
University of Jordan	May 2007	Present	Full Professor	Teaching and Research	Full Time

Participation in International Projects

1. **Badia Benchmark Project** (2000-2006): Team Leader of Socioeconomic components of Community-Based Optimization of the Management of Scarc Water Resources in Agriculture in West Asia and North Africa implemented by International Center for Agricultural Research in the Dry Areas ICARDA. National Center for Agricultural Research And Technology Transfer NCARTT
2. **MEDITATE project** (2002-2006): Participation as core investigator for Cost-effectiveness analysis of Mediterranean Development of Innovative Technologies for integrated water management. BRGM. Water division, RMD Unit, Montpellier. Project co-funded by the European Commission within the Sixth Framework Programme (2002-2006) The MEDITATE project is about integrated water management for limited water resources in Mediterranean countries, considering specifically the use of alternative water resources such as submarine springs, desalination and/or water reuse including development of a decision support system that will allow to integrate different types of knowledge (from physical to socio-economic fields), inclusive all social actors, in a decision making processes
3. **SMART Project Phase II (2010-2012)**: SMART II Integrated Water Resources Management in the Lower Jordan Rift Valley: SMART II) Sustainable Management of Available Water Resources with Innovative Technologies with Karlsruhe Institute of Technology (KIT). Work package number 7 (Socio-Economic Analysis) Activity type: Research, Development and Implementation. Objectives of Socio-Economic Analysis. Quantify costs and benefits of SMART-IWRM technology lines, Rank technologies for the mobilization of additional water at local level in terms of cost-effectiveness, Evaluate alternative IWRM strategies by applying the cost-benefit analysis at watershed level, Assess the financial feasibility of alternative IWRM strategies, Integrate key technologies in quantitative economic models.
4. **UNDP-Climate Change Project (2010-2011)**. Macro-level Assessment of potential direct and indirect impacts of climate change on socio-economic factors for “Assessment of Direct and Indirect Impacts of Climate Change scenarios on water availability and quality in the Zarqa River Basin”. In cooperation between Queen Rania Al-Abdullah Center for Environmental Sciences & Technology (QRACEST) Jordan University of Science and Technology (JUST) & Water and Environment Research and Study Center (WERSC).University of Jordan.

New Finished Research Project

1. Water Valuation in Jordan (December, 2011). Water demand management in Mediterranean countries: Thinking outside the water box! Jordan case study. JORDAN WATER DEMAND MANAGEMENT STUDY. Prepared for French Agency of Development (AFD)
2. Macro-level Assessment of potential direct and indirect impacts of climate change on socio-economic factors. For Assessment of Direct and Indirect Impacts of Climate Change scenarios on water availability and quality in the Zarqa River Basin. Submitted to: UNDP-Jordan (2011).

REGIONAL AND INTERNATIONAL RESEARCH PROJECTS

	Funding Agency	Project Title	Period
1-	Harvard University and Delft Hydraulics in Netherlands	Harvard Middle East Water Project (Regional Project) development of the Agricultural Sub-model (AGSM), which allocate Water in an optimal way using different water qualities.	1997-1998
2-	Ministry of Water and Irrigation and US Agency of international Development	Member in the Development of Water Allocation Models in Jordan Regional project in coordination between University of Jordan, Jordan University of Science and Technology & Hashemite University	2002-2004
3-	University of Jordan, USAID, MWI	Establishment of software for water allocation Model in The Jordan Valley.	2003-2004
4-	University of Jordan, USAID, MWI	Establishment of software for water allocation Model in The Southern Ghors (Safi Ghor).	2003-2004

NATIONAL RESEARCH PROJECTS

	Funding Agency	Project Title	Period
1-	Deanship of Academic Research, University of Jordan	Measuring the Technical and Allocative Efficiency of Water Use by Vegetable Producers in Jordan Valley	2003-2004
2-	Deanship of Academic Research, University of Jordan	The On-Farm Economic Effects of Policies to Remove Restrictions on Resources Acquisition in The Jordan Valley	2002-2003
3-	Higher Council for Scientific Research and Technology	Using of Information Systems for Management and Pricing of Irrigation Water in Jordan Valley	2002-2004

NATIONAL PROJECTS LEADER AND MEMBERSHIP

	Project Title	Year
1.	A member and sub-project leader of the socio-economic group in the Jordan Arid Zone Productivity Project, University of Jordan, Faculty of Agriculture.	1996-1998
2.	A member in the national committee of dams per request of Jordan Valley Authority – Ministry of Water and Irrigation.	1999-2000
3.	A member in the project of conservation and sustainable use of dry land Agro-Biodiversity in Jordan.	2000-2004
4.	A Member in the Development of Water Allocation Models in Jordan. A regional project in coordination between University of Jordan, Jordan University of Science and Technology & Hashemite University, USAID, MWI.	2003-2004
5.	A Member in the Badia Water Benchmark: Community – Based optimization of the Management of Scarce Water Resources in Agriculture in West Asia and North Africa, NCARTT and coordination with ICARDA	2004-2006

CONSULTATIONS AND COMMUNITY SERVICES

No	Institution receiving consultation or services	Nature of consultation or services	Date
1-	GTZ	The Economic Analysis of Producing Selected Vegetables under Certification Scheme for Integrated Pest Management.	1996
2-	INSTRUPA /GTZ	Identification of Jordanian Male and Female Farmers' Needs.	1996
3-	FORWARD /USAID	Cost Tariff Model Study: Calculating the debt service on the whole irrigation system in the Jordan Valley.	1997
4-	Ministry of Water /Jordan Valley Authority	Financial and Economic Feasibility Study of Mujib and Southern Ghors Irrigated Project in Jordan.	1998
5-	Ministry of Water /Jordan Valley Authority	Financial and Economic Feasibility Study of Waleh Dam Project.	1998
6-	Ministry of Water /Jordan Valley Authority	Financial and Economic Feasibility Study of Tannour Dam Project.	1998
7-	Ministry of Water /Jordan Valley Authority	Updating of the Economic Feasibility Study of AL- Wehdah Dam Project in the Jordan.	1998
8-	Ministry of Water /Jordan Valley Authority	The Economic Feasibility of the Reuse of Treated Wastewater in Makrabah Area and in the Northern Jordan Valley.	1999
9-	GTZ /Ministry of Agriculture	Advisory assistance of the ministry of agriculture in establishing Forecasting models Wheat Production In Jordan.	1999
10-	Ministry of Water /Jordan Valley Authority	Updating of the Economic Feasibility Study of AL- Wehdah Dam Project in the Jordan.	1999
11-	FAO /Ministry of Agriculture	Capacity Building in Agricultural Policy and Project Planning, TCP/JOR/0066	2000
12-	World Bank with cooperation of Ministry of Water /JVA	Economic and Financial Assessment of the Jordan Rift Valley, Jordan Rift Valley Improvement Project, Phase A.	2000
13-	FAO /Ministry of Agriculture	The Irrigation Sub-Sector in Jordan: problems, implications and possible solutions	2001
14-	FAO /Department of Statistics	Assistance to the Agricultural Census and the on-going System of Agricultural Statistics, TCP/JOR/0065.	2001
15-	World Bank with cooperation of Ministry of Water /JVA	Economic and Financial Assessment of the Jordan Rift Valley, Jordan Rift Valley Improvement Project, Phase B.	2001
16-	Ministry of Water /Jordan Valley Authority	Updating of the Economic Feasibility Study of AL- Wehdah Dam Project in the Jordan.	2002
17-	The Government of Jordan	Monitoring, Assessing and Quantifying Damage to Agricultural Resources due to Gulf Crisis	2002

18-	Ministry of Agriculture	Socio-economist in Study titled Socio-Economic study of Agricultural Resource Development Project in Yarmouk Basin". The Regional Centre on Agrarian Reform and Rural Development for the Near East (CARDNE).	2002
19-	GTZ	Using Seemingly Unrelated Yield and Area Equations to Predict Cereal Grain Outputs in Jordan	2002
20-	FAO /Egypt	Water Pricing And Its Implication In The Irrigated Agriculture In Jordan	2002
21-	GTZ	The economics of photovoltaic pumping system in the irrigated agriculture in Jordan.	2002
22-	FAO /Ministry of Agriculture	Agricultural Sector Assessment in Jordan over the period 1980-2000	2002
23-	Ministry of Agriculture	Participation of the evaluation of the final draft stage of the technical and economic feasibility study for the Agricultural Jordanian Project in Sudan.	2003
24-	Ministry of Agriculture	A member in the National Agricultural Strategic Plan for the Irrigated Agriculture in the Jordan Valley.	2003
25-	Jordanian Consulting Engineer Company for the Ministry of Water and Irrigation	Participation in "Consulting services for technical and economic feasibility study and final design of the wastewater collection, treatment and effluent reuse for Jerash area" Amman- Jordan	2004
26-	Jordanian Consulting Engineer Company for the Ministry of Water and Irrigation	Participation in "Consulting services for technical and economic feasibility study and final design of the wastewater collection, treatment and effluent reuse for Sukhna area" Amman- Jordan.	2004
27-	Social Sciences and Humanities Research Council of Canada (SSHRC)- CANADA	Evaluation of a research grant of an assessment entitled "The Nile Basin initiative: towards sharing the essential"	2004
28-	Government of Jordan	Monitoring, assessing and quantifying environmental damages to water, agricultural resources, terrestrial and marine ecosystems due to golf crisis in 1990. Section IV: Monitoring, Assessing and Quantifying Damage to Agricultural Resources. Claims for Environmental and Natural Resources Damages. Submitted to Government of Jordan, UNCC.	2003
29-	Ministry of Foreign Affairs	Participation in the Study "Cost of Influx of Palestinian Refugees into Jordan." (2004). Refugees' Studies Unit, Ministry of Foreign Affairs. Jordan	2004
30-	Ministry of Foreign Affairs	Participation in the study "The Impact of Palestinian Refugees on Jordan's Environmental Resources; Agriculture and Soils "	2003 - 2005
31-	Ministry of Foreign Affairs	The Impact of Palestinian Refugees on Jordan's Environmental Resources; Natural Environment & Biodiversity Rangeland, Forest, Wetland and Wildlife study	2003 - 2005
32-	Ministry of Foreign Affairs	The Impact of Palestinian Refugees on Jordan's Environmental Resources; Land Mines	2003 - 2005

33-	Ministry of Foreign Affairs	The Impact of Palestinian Refugees on Jordan's Environmental Resources; Water Resources	2003 - 2005
34-	Ministry of Foreign Affairs	The Impact of Palestinian Refugees on Jordan's Environmental Resources; Air Quality	2003 - 2005
35-	Ministry of Foreign Affairs	The Impact of Palestinian Refugees on Jordan's Environmental Resources; Cultural Heritage	2003 - 2005
36-	Ministry of Foreign Affairs	The Impact of Palestinian Refugees on Jordan's Environmental Resources; Marine and Risk Assessment	2003 - 2005
37-	Ministry of Foreign Affairs	The Impact of Palestinian Refugees on Jordan's Environmental Resources; Solid and Hazardous Waste	2003 - 2005
38-	Ministry of Agriculture	Technical and Financial Feasibility Study of Horticultural Marketing Company in Jordan (2006). Prepared for Ministry of Agriculture. ECO Consult (Amman, Jordan). Kelly Harrison Associates (Virginia, USA)	2006
39-	UNDP-Jordan	Marco- level Assessment of potential direct and indirect impacts of climate change on socio-economic factors. For Assessment of Direct and Indirect Impacts of Climate Change scenarios on water availability and quality in the Zarqa River Basin	2011
40-	UNDP-Jordan	Micro- Level Assessment of Potential Direct and Indirect Impacts of Climate Change on Socio-Economic Status in Zarqa River Basin For the study Assessment of Direct and Indirect Impacts of Climate Change scenarios on water availability and quality in the Zarqa River Basin	2011

UNIVERSITY TEACHING: COURSES TAUGHT

Institution	Title of course	Language of instruction
University of Jordan	Principles of Agricultural Economics	English
University of Jordan	Agricultural Statistics	English
University of Jordan	Statistics for Agribusiness	English (Graduate)
University of Jordan	Mathematical Economics	English
University of Jordan	Agricultural Econometrics	English
University of Jordan	Production Economics of Animal Production	English
University of Jordan	Field operations in Agricultural Economics and project evaluation	English
University of Jordan	Applications in Agricultural Economics and project evaluation	English
University of Jordan	Seminar in Agricultural economics	English
University of Jordan	Seminar in Agricultural economics	English (Graduate)
University of Jordan	Agricultural Linear Programming	English
University of Jordan	Agricultural Econometrics	English (Graduate)
University of Jordan	Operation Research in Agribusiness	English (Graduate)
University of Jordan/ University of Cologne (ITT)	Water Economics	English (Graduate)
University of Jordan/ University of Cologne (ITT)	Water Allocation and Pricing	English (Graduate)

Research articles that have been published in refereed journals

1. **Salman Amer** and M.S. Habbab, "Estimation of economic efficiency of vegetable production in the Jordan Valley" *DIRASAT, Agricultural Sciences*, Volume 24, Number 2, 1997, P 275-291. (Arabic)
2. **Salman Amer** and M.J. Tabbaa, "Utilizing the linear programming techniques to determine the components of feed ration for ewes at different physiological stages using agricultural and industrial by-products in addition to traditional feed stuffs" *DIRASAT, Agricultural Sciences*, Volume 27, Number 2, 2000, P 269-282. (Arabic)
3. Othman T, **Amer Salman**, and S. Abdulrahim, " Technical and economic factors affecting broiler parent stock farms in Jordan" *DIRASAT, Agricultural Sciences*, Volume 27, Number 2, 2000, P 385-401. (Arabic)
4. M. Salem and **Amer Salman**, "The trade-off between return and risk in the whole farm planning in the Jordan Valley" *Emirates Journal of Agricultural sciences*, Volume 12, pp 123-145, 2000 (Arabic)
5. **Salman Amer**, "Econometric analysis of barley production in low rainfall areas in Jordan", *DIRASAT, Agricultural sciences*, Volume 26, No. 1, January 1999, p 36-49.
6. Al-Karablieh E and **Amer Salman**, "Forecasting models for barley production in Jordan", *Emirates Journal for Agricultural Sciences*, Volume 11, 1999, p 59-81.
7. **Salman Amer**, M. A. El-Karaki and E. Al-Karablieh, "Economics of inputs used in olive production in Al Badia area of Jordan", *DIRASAT, Agricultural sciences*, Volume 27, No. 3, September 2000, p 327-333.
8. **Salman Amer**, E. Al-Karablieh, and F. M. Fisher, "An Inter-seasonal agricultural water allocation system (SAWAS)", *Agricultural Systems*, Volume 68, 2001, p 233-252.
9. **Salman Amer**, and E. Al-Karablieh, "An early warning system for wheat production in low rainfall areas of Jordan", *Journal of Arid Environments*, volume 49 (3), pp 631-642. November 2001.
10. E. Al-Karablieh, **Amer Salman**, and F. M. Fisher, "Forecasting wheat production (the case of Irbid region of Jordan)", *Quarterly Journal of International Agriculture*, Volume 41 (3), pp 191-206. 2002.
11. Werner Doppler, **Amer Salman**, Emad K. Al-Karablieh and Heinz-Peter Wolff (2002) "The impact of water price strategies on irrigation water allocation under risk - the case of Jordan Valley" *Agriculture Water Management*, Volume 55/3, 2002, p 171-182.
12. Emad Al-Karablieh, **Amer Salman**, (2004) Measures of Variation in Net Returns and their Impact on Regional Cropping Plans and Temporal Water Allocation, *DIRASAT*, Volume 31/2, 2004.
13. **Amer Salman** and Emad Al-Karablieh (2004). "Measuring the Willingness of Farmers to Pay for Groundwater in the Highland Areas of Jordan" *Agriculture Water Management*, Volume 68/1, 2002, p 61-76.
14. Wolff H.-P., **Amer Salman**, Werner Doppler, Asem Nabulsi, Emad Al-Karablieh. (2004), Socio-economic consequences from replacing freshwater by treated wastewater in rural areas – An example from the Jordan Valley. The 14th Stockholm Water Symposium (August 16-20, 2004), Sweden.
15. Salti Ayman and **Amer Salman** (2004), Estimation of the opportunity cost for fallowing units in the Jordan Valley, *DIRASAT, Agricultural Sciences*, Volume 32, Number 1, 2004. (Arabic)
16. **Amer Salman** (2005). "Economic Benefits of Reservoirs in the Irrigated Agriculture: A case study of the Jordan Valley". *Water International*, June 2005, Volume 30, No. 2, Pages 220-224.

17. Ph. Ker Rault; M. Bouzit; P. Jeffrey; **A. Salman** ; E. AL-Karablieh; .O. Attila ; S. Yüzereroğlu (2006), Application of a participatory foresight methodology at river basin scale in Jordan and Turkey, an International Congress on: an Integrated Water Resources Management and Challenges of the Sustainable Development, Marrakech, Morocco.
18. A I-Qaysi, Sukaynah and **Amer Salman** (2006), Measuring the Economic Impact of Using Different Water Qualities on the Productivity of Vegetables in the Middle Jordan Valley, *Jordan Journal of Agricultural sciences*, Volume 2 No. 1, pp 81-93.
19. Hunaiti, Doukhi A., **Amer Salman**, Emad Al-Karablieh (2007) The Effect of Poverty on Healthy Conditions and House Modernity Level in Jordanian Rural (Survey Study for Southern Jordan Rural). *Alexandria Journal of Agricultural Research*. 51, (1), pages 31-46
20. Amani Al-Assaf, **Amer Z. Salman**, Franklin M. Fisher, Emad Al-Karablieh, (2007), A Trade –off Analysis for the Use of Different Water Sources for Irrigation (The Case of Southern Shounah in the Jordan Valley). *Water International*. 32, (2), pages 244-253.
21. **Amer Salman**, Emad AL-Karablieh and Munther Haddadin (2008) Limits of Pricing Policy in Curtailing Household Water Consumption. *Water Policy*, Volume 10, No. (3), pages 295–304.
22. **Amer Salman**, Emad Al-Karablieh , Hans-Jochen Regner, Heinz-Peter Wolff, and Munther Haddadin (2008) Participatory Irrigation Water Management in the Jordan Valley. *Water Policy*. Volume 10, No. (4),pp 305–322.
23. Regner, H.J.; **Salman, A.Z.**; Wolff, H.P. Karablieh, Emad (2006) Approaches and Impacts of Participatory Irrigation Management (PIM) in Complex Centralized Irrigation Systems - Experiences and Results from the Jordan Valley 1. In: Asch, F.; Becker, M. (ed.) *Tropentag 2006: Prosperity & Poverty in a globalized world: Challenges for Agricultural Research*, University of Bonn, Oct. 11-13, 2006, Book of Abstracts. p.511, online-version of full paper (status Oct. 16, 2006): <http://www.tropentag.de/abstracts/full/213.pdf><http://www.tropentag.de/2006/abstracts/full/213.pdf>
24. Stéphanie Aulong, Madjid Bouzit Nathalie Dorfliger, Fadi Comair, Emad Al-Karablieh and **Amer Salman** (2008)Integrating water balance and cost-effectiveness analysis for water management: An application in Jordan and Lebanon 13th,IWRA World Water Congress, 1–4 September 2008, Montpeeier, France.
25. Faten Najar, Emad Al-Karablieh and **Amer Salman** (2010), Residential Water Demand Elasticity in Greater Amman Area, *Jordan Journal of Agricultural Sciences*, Accepted on 12/8/2010.
26. Arwa Hamaideh, Emad Al-Karablieh and **Amer Salman**, and Faten O. Al-Najjar, (2011), Consumer's Participatory Approach in Municipal Water Demand Management for Greater Amman, Date of publication: January 2011, *Journal of Water Efficiency, the Journal for Water resource Management*.
27. Heinz Peter Wolff, Leif Wolf; **Amer Zahi Salman**; Emad karablieh; Ali M. Subah; Joseph Guttman; Bensabat, Jacob; Aiman Jarrar (2012), Methodological challenges in evaluating performance, impact and ranking of IWRM strategies in the Jordan Valley, *Water Science and Technology*, Accepted for Publication in April 2012.
28. Emad Al-Karablieh, **Amer Salman**, Abbas Al-Omari , Heniz-Peter Wolff, Tamer Al-Assa'd, Doukhi Hunaiti, Ali Subah, (2012), Estimation of the Economic Value of Irrigation Water in Jordan, *Journal of Agricultural Science and Technology*, B2 (2012) 487-497.
29. Wolff, H-Peter, E. Al-Karablieh, T. Al-Assa'd, A. Subah, **A. Z. Salman**, (2012) Jordan water demand management study: study: on behalf of the Jordanian Ministry of Water and Irrigation in cooperation with the French Development Agency (AFD), *Water Science and Technology: Water Supply*, Volume 12, No. (1) pp 38-44.

Chapter in Books

1. **Chapter 5:** Ra'ed Daoud, Helena Naber, Mai Abu Tarbush, Razan Quossous, **Amer Salman**, and Emad Karablieh (2006) . Environmental Issues of Water Resources in Water Resources in Jordan (Evolving policies for development, the environment and conflict resolution), Editor: Munther J. Haddadin, Resources for The Future, Washington DC.
2. **Chapter 6:** **Amer Salman**, Emad Karablieh, Heinz-Peter Wolff, and Franklin M. Fisher (2006) . The Economics of Water in Jordan in Water Resources in Jordan (Evolving policies for development, the environment and conflict resolution), Editor: Munther J. Haddadin, Resources for The Future, Washington DC.
3. **Chapter 7 :** Munther J. Haddadin, **Amer Salman** and Emad Karablieh (2006) . The Role of Trade in Alleviating Water Shortage, in Water Resources in Jordan (Evolving policies for development, the environment and conflict resolution), Editor: Munther J. Haddadin, Resources for The Future, Washington DC.
4. Fisher, Franklin M. Huber-Lee, Annette Amir, Ilan Arlosoroff, Shaul Eckstein, Zvi Haddadin, Munther J. Hamati, Salem Ghazi Jarrar, Ammar M. Jayyousi, Anan . Shamir, Uri Wesseling Hans, **Salman, Amer Z. (Contributor)** Al-Karablieh, Emad (Contributor) (2005). **Liquid Assets: An Economic Approach For Water Management And Conflict Resolution In The Middle East And Beyond.** Publisher Johns Hopkins University Press.

Papers and presentations at conferences and seminars.

1. **Amer Salman**, (2001), The impact of optimizing the allocation of irrigation water on the economics of agricultural production. Water saving and increasing water productivity: Challenges and options Jordan, March, 10-23, 2001, Pages b20.1-b 20.13.
2. Mohammad Shatanawi and **Amer Salman** (2002), Impact of full cost recovery of irrigation water on the farming economics in the Jordan valley, An international conference in Agadir in MOROCO with cooperation of CIHEAM/ Mediterranean Agronomic Institute-BARI. Water Valuation and Cost Recovery Mechanisms in the Developing Countries of the Mediterranean Region. Morocco OROCO Series A: Mediterranean Seminars Number 49, June 2002, Pages 105-121, ISSN:1016-121X, ISBN:2-85352-247-4
3. **Amer Salman**, K. Raddad, M. Shatanawi, and H. Al-Qudah (2002), The economics of groundwater use in agriculture in the upland area of Jordan, An international conference in Agadir in MOROCO with cooperation of CIHEAM/ Mediterranean Agronomic Institute-BARI. Water Valuation and Cost Recovery Mechanisms in the Developing Countries of the Mediterranean Region. Morocco Series A: Mediterranean Seminars Number 49, June 2002, Pages 177-190, ISSN:1016-121X, ISBN:2-85352-247-4.
4. **Amer Salman** (2002), The economics of photovoltaic pumping system in the irrigated agriculture in Jordan A workshop titled Application of photovoltaic in irrigated agriculture, present and prospective, Amman Jordan. April, 2002.
5. M.R. Hamdan and **Amer Salman** (2004), Impact of Irrigation Water Scarcity on the Socio-economics of Agricultural Sector and Food Security in Jordan, the International forum on Food Security under Water Scarcity in the Middle East: Problems and Solutions, COMO (Italy) November, 24-27 2004.
6. Heinz-Peter Wolff, **Amer Salman**, Werner Doppler, Asem Nabulsi, and Emad Al-Karablieh (2004), Socio-Economic Consequences from Recycling Freshwater by Treated Wastewater in Rural Areas- An Example from the Jordan Valley, The 14th World Water Week in Stockholm, Sweden, August 16-20, 2004, Pages 129-130, Abstract.
7. **Amer Salman**(2005), Measuring the impact of Treated Wastewater on the Marginal Productivity of Agricultural Land in the Jordan Valley, Regional Workshop on the Natural Resource Valuation and Assessing the Impact of Water Resource Management Research in Agriculture, Rabat, Morocco, January, 6-11, 2005

8. M.R. Hamdan and **Amer Salman** (2005), Socio-Economic Impact of Water Price Strategies in the Jordan Valley, Jordan, International Conference Water: Values & Rights, Sponsored by: Palestine academy for science and Technology and Palestinian Water Authority, Ramallah, Palestine, May 2-4, 2005, Pages 111, Abstract.
9. Heinz-Peter Wolff, Werner Doppler and **Amer Salman** (2006), Widening the Scope of IWRM from Natural to Socio-Economic Watersheds – The Conceptual Framework of Research Network in the Jordan Valley, World Water Week in Stockholm, Sweden, August 20-26, 2006, Pages 159-160 Abstract.
10. Emad Al-Karablieh and **Amer Salman** (2006), Measuring the Profitability of Different Irrigation Water Qualities in the Down Stream of Amman Zarqa Basin in Jordan. Integrated Water Resource Management and Challenges of the Sustainable Development, Morocco, Marrakech, May 23-25, 2006, Page 74.
11. **Amer Salman** ; Emad Al-Karablieh (2006), Socioeconomic factors influencing the households water demand function in Jordan. International Conference: Integrated Water Resource Management and Challenges of the Sustainable Development. Marrakech 23-25 May 2006.
12. Ph. Ker Rault, M. Bouzit; P. Jeffrey; **A. Salman** (2006), E. AL-Karablieh, .O. Attila ; S. Yüzereroğlu. Application of Participatory Foresight Methodology at River Basin Scale in Jordan and Turhey, Integrated Water Resource Management and Challenges of the Sustainable Development, Morocco, Marrakech, May 23-25, 2006, Page 134, Paper is on CD
13. Emad Al-Karablieh, **Amer Salman** , and Abbas Al-Omari, Mohammad E. Osman. (2006). Water Allocation Model in Ghor Al-Safi in Jordan. The 3rd International Conference on the "Water Resources in the Mediterranean Basin" WATMED 3. Tripoli-Lebanon, 1-3 November 2006.
14. Emad Al-Karablieh, **Amer Salman** , and Abbas Al-Omari (2006). The Residential Water Demand Function in Amman-Zarka Basin in Jordan. The 3rd International Conference on the "Water Resources in the Mediterranean Basin" WATMED 3. Tripoli-Lebanon, 1-3 November 2006.
15. Al-Omari, A, Courtois, N., Lanini, S., Al-Fares, W., Al-Charideh, **A., Salman**, A., Al-Karablieh, E., Ekmekci, M., and Levant, T (2006) Development of Water Management Support Systems for Mediterranean Countries. The 3rd International Conference on the "Water Resources in the Mediterranean Basin" WATMED 3. Tripoli-Lebanon, 1-3 November 2006.
16. Regner, H.J.; **Salman, Amer**; Wolff, H.P. Karablieh, Emad. (2006): Approaches and Impacts of Participatory Irrigation Management (PIM) in Complex Centralized Irrigation Systems - Experiences and Results from the Jordan Valley. In: Asch, F.; Becker, M. (ed.) Tropentag 2006: Prosperity & Poverty in a globalized world: Challenges for Agricultural Research, University of Bonn, Oct. 11-13, 2006, Book of Abstracts. p.511, online-version of full paper (status Oct. 16, 2006): <http://www.tropentag.de/abstracts/full/213.pdf>.
17. Wolff, H.-P. Wolff, M. Shechter, A. Fleischer, **Amer Salman**, Emad Al-Karablieh, T. Hijawi, I. Kan, N. Becker (2007). Socio-economic consequences of changes in frame conditions for the agricultural sector.
18. Wolff, H-P. Wolff, H-P, M. Shechter, T. Hijawi, **Amer Salman**, A. Fleischer, E. Al-Karablieh, I. Kan (2008). Change in Natural Resources vs. Socio-economic Development-Identification of Bottlenecks for Exploiting Future Agricultural Potentials in the Jordan Valley. Competition for Resources in a Changing World: New Drive for Rural Development. Tropentag, October 7-9, 2008, Hohenheim. Germany
19. Stéphanie Aulong, Madjid Bouzit Nathalie Dorfliger, Fadi Comair, Emad Al-Karablieh and **Amer Salman** (2008). Integrating water balance and cost-effectiveness analysis for water management: An application in Jordan and Lebanon. 13th IWRA World Water Congress, 1–4 September 2008, Montpellier, France.

20. **Amer Salman**, Emad Al-Karablieh and Munjed Al-Sharif (2009), An Assessment of the Potential Consequences of Water Supply Variability on the Socioeconomics of the Northern Jordan Valley, G-WADI International Workshop, "Climate Change Impact on Water Resources: Risk, Assessment and Management in Arid and Semi- Arid Regions" 24th -26th November 2009, Le Meridian Hotel, Amman-Jordan
21. Marc Haering, Emad Al-Karablieh and **Amer Salman** (2009), Predicting Unmet Irrigation Water Demands due to Climate Change Impacts on Water Resources, G-WADI International Workshop, "Climate Change Impact on Water Resources: Risk, Assessment and Management in Arid and Semi- Arid Regions" 24th -26th November 2009, Le Meridian Hotel, Amman-Jordan.
22. Marc Haering, Emad Al-Karablieh and **Amer Salman** (2009), Predicting Unmet Irrigation Water Demands due to Climate Change Impacts on Water Resources. The International Conference on Food Security and Climate Change in the Dry Areas, Organized by ICARDA and NCARE 1st -4th February 2010, Amman-Jordan.
23. Emad Al-Karablieh and **Amer Salman**, (2010), An Assessment of Socioeconomics Dimensions of Climate Change on Agricultural Sector in Jordan, The Higher Council for Science and Technology, HCST "15th Annual Science Week 12-12/05/2010.
24. **Amer Salman** and Emad Al-Karablieh, (2010), The Economics of Using Different Qualities of Irrigation Water in the Down Stream of Amman-Zarqa Basin, The Higher Council for Science and Technology, HCST "15th Annual Science Week 12-12/05/2010.
25. Wolff, H-P., A. Subah, J. Guttman, A. Tamimi, J, Bensabat, , A. Jarrar, **Amer. Salman**, and E. Karablieh .(2011). Performance, impact and ranking of IWRM strategies in the Jordan Valley. International Conference on Integrated Water Resources Management. Management of Water in a Changing World: Lessons Learnt and Innovative Perspectives. 12-13 October 2011, Dresden, Germany
26. Al-Omari, A., **Amer. Salman** , and E. Al-Karablieh (2011) The Red Dead Canal Project: An Adaptation to Climate Change in Jordan. 1st Water and Environment International Conference, WATEIC-2011, October 26 - 29, 2011, Marrakech- Morocco
27. Emad K. Al-Karablieh, **Amer Z. Salman**, Abbas Al-Omari, Heniz-Peter Wolff, Tamer Al-Assa'd, Ali Subah (2011). Estimation of the Economic Value of Irrigation Water in Jordan. 1st Water and Environment International Conference, 26-29 October, 2011, Marrakech, Morocco,
28. Tamer A. Al-Assa'd, Emad K. Al-Karablieh, **Amer Z. Salman**, Heniz-Peter Wolff (2011) Recognizing the Economic Value of Domestic Water in Jordan as a Way for Appropriate Setting of Water Pricing, 1st Water and Environment International Conference, 26-29 October, 2011, Marrakech, Morocco
29. **Amer Salman**, Emad Al-Karablieh , Abbas Al-Omari, Iyad Hussein & Tamer Al-Assad (2011). Water Allocation Model (WAM). 1st Water and Environment International Conference, 26-29 October, 2011, Marrakech, Morocco.
30. **Amer Salman** and Emad Al-Karablieh (2010). The Economics of Using Different Qualities of Irrigation Water in the Down Stream of Amman-Zarqa Basin. 15th Annual Jordanian Science Week, 2010. (10-12 May, 2010), Jordan
31. Arwa Hamaideh, Emad K. Al-Karablieh, **Amer Salman** and Faten O. Al-Najjar (2011). Consumer's Participatory Approach in Municipal Water Demand Management for Greater Amman. The sixth IWA Specialist Conference on Efficient Use and Management of Water. Dead Sea, Jordan. 29 March- 2 April 2011. IWA, USAID, Ministry of Water & Irrigation, Jordan
32. Wolff, H-P., Al-Karablieh E., Al-Assa'd T., Subah A, Amer Salman (2011). Jordan Water Demand Management Study. The sixth IWA Specialist Conference on Efficient Use and Management of Water Dead Sea, Jordan. 29 March- 2 April 2011. IWA, USAID, Ministry of Water & Irrigation, Jordan.
33. Wolff, H-P., A. Subah, J. Guttman, A. Tamimi, J, Bensabat, , A. Jarrar, **A. Salman**, and E. Karablieh Performance, impact and ranking of IWRM strategies in the Jordan Valley

International Conference on Integrated Water Resources Management. Management of Water in a Changing World: Lessons Learnt and Innovative Perspectives. 12-13 October 2011 Dresden, Germany.

34. Al-Omari, A., **A. Salman** , and E. Al-Karablieh. The Red Dead Canal Project: An Adaptation to Climate Change in Jordan 1st Water and Environment International Conference, WATEIC-2011, October 26 - 29, 2011. Marrakech- Morocco.
35. Emad K. Al-Karablieh, **Amer Z. Salman**, Abbas Al-Omari, Heniz-Peter Wolff, Tamer Al-Assa'd, Ali Subah. Estimation of the Economic Value of Irrigation Water in Jordan. 1st Water and Environment International Conference. 26-29 October, 2011, Marrakech, Morocco.
36. Tamer A. Al-Assa'd, Emad K. Al-Karablieh, **Amer Z. Salman**, Heniz-Peter Wolff Recognizing the Economic Value of Domestic Water in Jordan as a Way for Appropriate Setting of Water Pricing. 1st Water and Environment International Conference 26-29 October, 2011, Marrakech, Morocco.
37. **Amer Salman**, Emad Al-Karablieh , Abbas Al-Omar, Iyad Hussein & Tamer Al-Assad, Water Allocation Model (WAM) 1st Water and Environment International Conference 26-29 October, 2011, Marrakech, Morocco.

OTHER UNIVERSITY ACTIVITIES

A member in different exam committees for many Master's and PhD students:

Title	Year
1. Possibility of minimizing the cost of imported red meat in Jordan.	1997
2. Economic impact of the use of recycled wastewater of King Talal Dam on citrus production in the middle Ghor of the Jordan Valley.	1998
3. The impact of structural adjustment program on food consumption pattern of households in Zarka governorate.	1998
4. Analysis of socio-economic factors and their relation ship with the use and management of agricultural resources in Muhy.	1999
5. Water harvesting potential of different land types in arid to semi-arid region in Jordan.	1999
6. Analysis of the agricultural policies affecting fruit tree sector in the highlands of Jordan (PHD-thesis).	2000
7. Estimating the demand and production functions of animal products and food gap in Jordan.	2001
8. Optimization of water allocation in the agricultural sector in the Yarmouk Basin of Jordan.	2004
9. Economic Evaluation of Eco-tourism in Dibben protected area and its role in site's conservation and development of local community	2005

AWARDS AND SCHOLARSHIPS

1. Participant in a conference held in Germany “The use of Nitrogen fertilizers and its consequences on the Quality of Ground Water.	1993	Germany
2. Scientific visit on the possibility of developing and improving the land and water use in the Mhasse area in Syria, financed by ICARDA and JAZZP.	November 1996	Syria
3. Participation in a conference in with the cooperation of Harvard University, with the title of “Water economics and Modeling in the Middle East”.	March, 1998	Netherlands/ Amsterdam
4. Awarded a scholarship from DAAD, for the research purpose at the university of Hohenheim- Germany (July 1 – August 30, 2000)	July, 1- August 30, 2000	Germany/ Stuttgart
5. Awarded a scholarship from TEMPUS (European Union) for the research purpose at the university of Hohenheim- Germany (July 1 – August 30, 2003)	July, 1- August 30, 2003	Germany/ Stuttgart

COMMUNITY SERVICES

Other community services: Training courses, lectures, seminars, articles of general interest, etc.

Nature of service or activity	Place	Date
1. Training a Yemeni- Trainees through a course (“using the Microsoft’s Excel and Blp88 in project evaluation and farm resource planning”) held at the University of Jordan.	Jordan	1995
2. Training of trainers in the formulation of agriculture and rural investment project with environmental consideration, The regional Center on Agrarian Reform and Rural Development For the Near East at (CARDNE).	Jordan	1996
3. Participation in a workshop, financed by the USAID with cooperation of the Institute of Public Administration, with the title of “Introduction to conflict analysis and consensus-building processes” USAID.	Jordan	June, 1997
4. Trainer for participants in the field of agricultural Policy analysis of water sector, Financed by FAO with cooperation of Ministry of Agriculture.	Jordan	2001
5. Training participants in the field of mathematical programming in the field of water sector, Financed by FAO with cooperation of Ministry of Agriculture.	Jordan	2001
6. Participation as trainer in the Advanced short course on Water Saving and Increasing Water Productivity: Challenges and Options” Faculty of Agriculture University of Jordan. Amman- Jordan, March 10-23, 2001.	Jordan	March 10-23, 2001
7. Training for participants from the Royal Society for Conservation of Nature (RSCN) in the field of Statistics and applications.	Jordan	2003
8. A training program in the field of project evaluation (economic and financial feasibility study) use EXCEL software. Near East-North Africa Regional Agricultural Credit Association (NENARACA).	Jordan	2004
9. Lecturer in the field of The Environmental Valuation methodologies in a workshop titled Efficient Management of wastewater, it’s treatment and reuse in the Mediterranean Countries, held at Al_al-bayt University funded by the European Commission and German Federal Ministry for Economic cooperation and Development (BMZ)	Jordan Al_al-bayt University	June, 27- October 12, 2004
10. International master program “Integrated Water Resources Management” for German and Arab young professionals. This project is a joint master’s program between the WERSC of the University of Jordan and the University of Applied Sciences at Cologne (UASC) in Germany. The focus of the program is on Integrated Water Resources Management (IWRM). This project is funded by Deutscher Akademischer Austauschdienst (DAAD).	Jordan & Germany	2007-2010