

July 2018

## CURRICULUM VITAE

**Ariel Dinar**

Professor of Environmental Economics and Policy  
School of Public Policy  
University of California, Riverside  
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### RESEARCH FOCI

Resource and Environmental Economics  
Regional Cooperation  
Water resource Economics  
Water Policy  
Management of International Water  
Cooperative Game Theory  
Production Economics  
Agricultural Extension

### EDUCATION

Ph.D. The Hebrew University of Jerusalem, 1984 (Agricultural and Resource Economics).  
Ms.C. with distinction, The Hebrew University of Jerusalem, 1974 (Agricultural Economics), with Distinction.  
Bs.C. The Hebrew University of Jerusalem, 1972 (Agricultural Economics).

### EXPERIENCE/POSITIONS

*Distinguished Professor of Environmental Economics and Policy*, School of Public Policy, University of California, Riverside, USA (July 1, 2018-).  
*Lady Davis Visiting Professor* (sabbatical leave), Department of Environmental Economics and Management, The Hebrew University of Jerusalem, Robert H. Smith Faculty of Agriculture, Food & Environment, Rehovot, Israel (January 1, 2015-September 1, 2015).  
*Professor of Environmental Economics and Policy*, School of Public Policy, University of California, Riverside, USA (September 1, 2014-2018).  
*Professor of Environmental Economics and Policy*, Department of Environmental Sciences, University of California, Riverside, USA (December 1, 2008-August 31, 2014).  
*Founding Director* Water Science and Policy Center, Department of Environmental Sciences, University of California, Riverside, USA (December 1, 2008-June 30, 2014).  
*Lead Economist and Coordinator of Climate Change and Water Economics Research*, Development Economics Research Group, The World Bank, Washington DC, USA, (2006-Nov 30, 2008).  
*Lead Economist*, Agriculture and Rural Development Department, The World Bank, Washington DC, USA, (2000-2006).  
*Principal Economist*, Rural Development Department, The World Bank, Washington DC, USA, (1998-2000).

- Adjunct Professor*, School of Advanced Int'l Studies, Johns Hopkins University, Washington D.C., USA, (2000-2008).  
Courses: (1) Int'l Water: Conflict, Negotiation and Cooperation (Graduate level).  
(2) Political Economy of Public Policy (Graduate level, 2006).
- Adjunct Professor*, Department of Economics, George Washington University, Washington, D.C., USA, (1998-2000).  
Course: Cost-Benefit Analysis (Graduate and Upper Under-graduate levels).
- Senior Economist*, Rural Development Department, The World Bank, Washington DC, USA, (1996-1998).
- Economist*, Agriculture and Natural Resources Department, Agricultural Policy Division, The World Bank, Washington DC, USA, (1993-96).
- Visiting Lecturer*, Department of Economics, Ben-Gurion University of the Negev, Beer Sheva, Israel, (1992-93).  
Courses: (1) Water and resource economics (Upper Undergraduate level).  
(2) Water and environmental economics (Upper Undergraduate level).
- Senior Researcher (rank B)*, Institute for Desert Research, Ben-Gurion University of the Negev, Sede Boker, Israel, (1992-93).
- Visiting Scholar*, Department of Agricultural Economics, College of Agricultural and Environmental Sciences, University of California, Davis, and USDA-ERS, (1990-92).  
Research foci: Multicrop production decisions in irrigated agriculture. Regional modeling and economic incentives for water quality and quantity control. The economics of water quality cooperatives.
- Visiting Researcher*, Department of Soils and Environmental Sciences, University of California, Riverside, and San Joaquin Valley Drainage Program, Sacramento, CA., (1988-90).  
Research foci: Adoption of improved irrigation and drainage technologies. Pricing policies and institutions for regional regulation of drainage quality and quantity.
- Researcher (rank C)*, Agricultural Research Organization, Department of R&D Economics, The Volcani Center, Bet-Dagan, Israel, (1987-88).  
Research foci: Economics of productivity and allocation of resources for research.
- Researcher*, The Hebrew University of Jerusalem, Department of Agricultural Economics and Management, Rehovot, Israel, (1985-88).  
Research foci: Patterns of agricultural technology exchange and cooperation in similar ecosystem: the case of Egypt and Israel. Economic aspects of solutions to salinity and drainage problems in the Jezreel Valley of Israel.
- Post Doctoral Research Associate*, University of California, Riverside, Department of Soils and Environmental Sciences, Riverside, CA., (1983-85).  
Research foci: Economics of agricultural drainage water reuse. Economic evaluation of solutions to drainage and salinity problems in irrigated agriculture. Crop water production functions for saline irrigation waters.
- Instructor*, The Hebrew University of Jerusalem, Department of Agricultural Economics and Management, Rehovot, Israel, (1980-83).  
Courses: Production Economics A and B (Undergraduate Level).
- Farm Management and Production Economics Specialist*, Israel Ministry of Agriculture, The Extension Service, Rehovot, Israel, (1974-87).  
Extension projects: Educational programs in economics and farm management. Introduction of computers at farm and regional levels for inter- and intra-farm analysis of agricultural production activities. Regional project for optimal allocation of irrigation waters on kibbutz farms during peak season of cotton irrigation.

## AWARDS AND RECOGNITIONS

- Distinguished Extension Economist*, The Israeli Extension Service, Ministry of Agriculture, Tel-Aviv, Israel, 1976.
- Department Chair recognition for Excellence in teaching*. Production Economics A and B, The Hebrew University of Jerusalem, Department of Agricultural Economics and Management, Rehovot, Israel, 1982.
- 1997 Best Article of the Year in the Agriculture and Resource Economics Review*. Dinar, A. and A. Wolf, "Economic and Political Considerations in Regional Cooperation Models".
- Teaching Stipend*, "Cooperative Game Theory in Water Resources" at the *International Summer School on Game Theory and the Environment* for Graduate Students organized by The CITG - Interuniversity Centre for Game Theory and its Applications, the EAERE - European Association of Environmental and Resource Economists and the FEEM - Fondazione Eni Enrico Mattei, with the collaboration of the Department of Mathematics of the University of Genoa. Lavagna, Italy, September 2-14, 2002.
- Fulbright Foreign Scholarship Board and the U.S. Department of States*. Fulbright Senior Specialists Program, Washington, DC, August 2003.
- International Fellow, The Center for Agricultural Economic Research, Hebrew University of Jerusalem, Israel, November 2010*.
- Teaching and School Coordination Stipend*, "Management of International Water" at the *European Summer School on Environmental and Resource Economics* for Graduate Students, organized by the European Association of Environmental and Resource Economists, Venice, Italy. July 1-8, 2012.
- Lady Davis Visiting Professor in the Robert H. Smith Faculty of Agriculture, Food & Environment at the Hebrew University of Jerusalem, Israel, Academic year 2014-2015*.
- Fellow, Agricultural & Applied Economics Association*. 2015 Fellow.
- 2016 winner of the Rollie Lamberson Research Award Medal of the Natural Resources Association for the paper* Esteban E. and A. Dinar, "The Role of Groundwater-Dependent Ecosystems in Groundwater Management."

## CONSULTING

California Department of Water Resources; U.S. Bureau of Reclamation; U.S. Department of Agriculture, Economic Research Service; The World Bank; California Energy Commission; Western Consortium for Public Health; California Cut Flower Commission, World Bank, European Union (FP7 Environment), International Food Policy Research Institute.

## TEACHING

Introduction to Environmental Economics (ECON/ENSC006)  
 Management of International Water (GBST/PBPL130)  
 Economics of Natural Resources (ECON/ENSC143B)  
 Political Economy of Environmental Policy (ECON210E)  
 Applied Microeconomics for Public Policy (PBPL214)  
 Comparative Global Water Policy (PBPL245)

## STUDENT/POST DOC ADVISING

### Ph.D. Students:

#### Major Advisor/Committee Chair/Co-chair:

- (1) Getachew Nigatu, Dept of Economics, UC Riverside "Basin Water Transfer Market during Climate Change: A Case of Blue Nile River", Graduated March 2012 (Economic Research Service, USDA, Washington DC, USA).

- (2) Javier Santiago Ortiz, Dept of Economics, UC Riverside, Civil War and Access to Water and Sanitation Services, Graduated March 2013.
- (3) Indrani Chatterjee, Dept of Economics, UC Riverside, “Runoff Variability & Transboundary Water Management: An Assessment of Risk to Regional Agreements from Likely Climatic Change”, Graduated June 2014.
- (4) Sanval Nasim (2009-2015) “Modelling Allocative Inefficiency of Irrigation Water across Agricultural Tenure Systems in Pakistan”, Graduated November 2015 (Lahore University of Management Sciences, Lahore, Pakistan).
- (5) Arisha Ashraf (2010-2018) “Resiliency of Agricultural Systems in Desert and Southern California to Water Scarcity”, Graduated March 2018.
- (6) Uday Kumar (2010-2015) “Management of Drought and Climate Change: An Institutional Economics Approach”. Withdrew in 2015.
- (7) Edgar Tellez (2011-2016) “Essays on User Response to Alternative Policies to Modifying Subsidies for Groundwater Extraction”, Graduated August 2016 (Chino Basin Watermaster, Rancho Cucamonga, CA, USA).
- (8) Julie Escalera (2012-2018) “Water Management Practices in California Avocado: Addressing Technology Adoption and Soil Water Relations: Impacts on Leaf Nutrients and Yield”, Graduated March 2018.
- (9) Khadeedja Sani (2013-) “Development of a Water-Energy-Food Nexus Model for Decision-Making with Application to the Emirate of Dubai”
- (10) Diti Chatterjee (2013-2016) “Essays on the Contribution of the University of California Cooperative Extension: Knowledge, Agricultural Productivity and Irrigation Water Use Efficiency”, Graduated November, 2016 (A2F Consulting, Bethesda, MD, USA).

Committee member:

- (1) Apurva Sanghi, Dept of Economics, Yale University “Impact of Climate Change on Indian Agriculture”, (1995-1998, May).
- (2) Benjamin Simon, Dept of Economics, George Washington University “Devolution of Federally Constructed Irrigation Projects”, (1998-2001, June).
- (3) Pradeep Kurukulasuriya, Dept of Economics, Yale University (“Climate Change impact and Adaptation in Developing Countries”, (2003-2006, May).
- (4) Monobina Mukherjee, Dept of Environmental Sciences UC Riverside “Valuation of Natural Resources and Their Conservation Policies”, (2009-2013, June).
- (5) Lucia Levers, Dept of Environmental Sciences UC Riverside, (2013-2015, June).
- (6) Juan Carlos G. Lopez, Dept. of Economics, UC Riverside (2014-2016, June).
- (7) Yuyu Zeng, Vrije Universiteit Amsterdam, Faculty of Economics and Business Administration (2014-2016, September).
- (8) Charles Regnacq, Universite de Pau et des Pays de l’Adour, School of Social and Humanities Studies, (2013-2017, February).
- (9) Parisa Parsafar, Dept of Psychology, UC Riverside (2017-)

**Post Docs:**

- (1) Kaveh Madani, 2010-2011
- (2) Encarna Esteban, 2013-2014
- (3) Ami Reznik, 2017-

## SERVICES

### **Editorial Boards:**

- (1) Technological Forecasting and Social Change (1991-1997).
- (2) Journal of Environmental Economics and Management (1997-2000).
- (3) American Journal of Agricultural Economics (1997-2002).
- (4) Water Resources Research (2002-2004).
- (5) International Review of Environmental and Resource Economics (2006-2012).
- (6) Acta Oeconomica Pragensia (2007-2012).
- (7) Editorial Council Member, Choices Magazine (2017-).
- (8) Associate Editor, The Oxford Encyclopedia of Water Resources Management and Policy (2017-).

### **Founder / (Co) Editor in Chief:**

- (1) Strategic Behavior and the Environment, now Publishers, Founder and Editor in Chief (6/2009-12/2012), Co-Editor-in-Chief (1/2013-).  
<http://nowpublishers.com/journals/SBE/3;jsessionid=E8C1A0E5B8498EA4FFF9A5690150BF8B>
- (2) Water Economics and Policy, World Scientific Publishers, Founder and Editor-in-Chief (10/2013-).  
<http://www.worldscientific.com/worldscinet/wep>

### **Committees and Boards:**

- California Department of Water Resources Sub-Committee on Water and Drainage, (1989-1992).
- Rosenberg International Forum on Water Policy, (1996-).
- Organizing Committee, 6<sup>th</sup> Meeting on Game Theory Practice Dedicated to Development, Natural Resources and the Environment, Zaragoza, Spain, July 10-12, 2006 (2005-2006).
- Advisory Committee, 7<sup>th</sup> Meeting on Game Theory and Practice Dedicated to Energy, Environment and Natural Resources, May 28 - 30, 2007, HEC Montréal, (2006-2007).
- Water Sector Board, World Bank, Washington DC, USA (9/2007-11/2008).
- Advisory Board, International Center for Water Economics and Governance in Africa (IWEGA), Universidade Eduardo Mondlane, Maputo, Mozambique, (4/2009-4/2018).
- Board Member, (UCOWR) The University Council on Water Resources (7/2010-7/2013).
- Chair, Search Committee for Director, California Water Resources Research Institute (CWRI) (12/2010-2/2011).
- Member, Water Resources Center Archive Committee (12/2010-08/2011).
- Member, Advisory Council, Southern California World Water Forum (6/2011-).
- Member, Independent Science Panel to the Climate Change, Agriculture and Food Security Group (2011-2013).
- Member, CNAS Executive Committee, University of California, Riverside (9/2012-8/2015).
- Member, Research Advisory Committee (RAC) of the ongoing Pakistan Strategy Support Program (PSSP) Competitive Grants Program (CGP) for economic and related social science research for Pakistan, administered by the International Food Policy Research Institute (IFPRI) as part of its four-year activity under the auspices of the Planning Commission and funded by USAID (2014-2016).
- Member, SPP Executive Committee, University of California, Riverside (9/2015-).

Chair, UCR Search Committee, Agricultural Economist Cluster Hire (9/2015-4/2016).  
 Member, UCR Search Committee, Supply Chain Economist (9/2015-5/2016).  
 Graduate Advisor, UCR School of Public Policy (9/2015-8/2016).  
 Co-Graduate Advisor for Continuing Students, UCR School of Public Policy (9/2016-)

### **Journal Reviews:**

American Journal of Agricultural Economics, Water Resources Research, Western Journal of Agricultural Economics, Technological Forecasting and Social Change; Agricultural Systems; Contemporary Policy Issues, Resource and Energy Economics, Journal of Agribusiness, Land Economics, The Journal of Developing Areas, American Water Resources Association Journal, J. of Agricultural and Resource Economics, Annals of Operations Research, Water Policy, Agricultural and Resource Economics Review, Australian J. of Agricultural Economics, Environment and Development Economics, Chariers d'Economie et Sociologie Rurales, The European Journal of Political Economy, Southern Journal of Agricultural and Applied Economics, Journal of Environmental Management, Climatic Change, International Negotiation, Food Policy, Ecological Economics, Proceedings of the National Science Foundation of the United States of America, International Environmental Agreements, Journal of International Interactions, Ambio, Hydrology Journal, African Journal of Agriculture and Resource Economics, Journal of Policy Analysis and Management, Journal of Economic Growth, Irrigation Science, Environmental Modeling and Software, Environmental Research, Water Security.

### **Other Reviews**

Bi-national Agricultural Research and Development Fund (BARD); California Water Resources Center; Pacific Basin Advisory Group at Hawaii; U.S. National Science Council; U.S. National Science Foundation; U.S. AID; Social Sciences and Humanities Research Council of Canada.

## **PUBLICATIONS**

### **Books**

- [1] Dinar, A. and D. Zilberman (Editors), *The Economics and Management of Water and Drainage in Agriculture*. Kluwer Academic Publishers, Boston, MA, 1991.
- [2] Dinar, A. and E. Loehman (Editors), *Water Quantity/Quality Management and Conflict Resolution: Institutions, Processes, and Economic Analysis*. Greenwood Publishing Group, Westport, CT, 1995.
- [3] Dinar, A. and J. Letey, *Modeling Economic, Management and Policy Issues of Water in Irrigated Agriculture*. Praeger Publishers, Westpoint, CT, 1996.
- [4] Easter K. W., M. Rosegrant, and A. Dinar (Editors), *Markets for Water - Potential and Performance*. Kluwer Academic Publishers, 1998.
- [5] Dinar, A. (Ed.), *The Political Economy of Water Pricing Reforms*. Oxford University Press, 2000.
- [6] Dinar, A. and D. Zilberman (Eds.), *Economics of Water Resources: The Contributions of Dan Yaron*. Kluwer Academic Publishers, 2002.
- [7] Dinar, A. (Ed.) *The Political Economy of Water Pricing Reforms* (in Chinese). Beijing: WaterPub (The General Institute of Water Resources and Hydropower Planning and Design), 2003.  
阿里-迪南 (编), 水价改革与政治经济, 中国水利水电出版社, 2003.
- [8] Tsur, Y., T. Roe, R. Doukkali, and A. Dinar, *Pricing Irrigation Water: Principles and Cases from Developing Countries*. Resources For the Future Press, 2004.
- [9] Palmieri, A., F. Shah, G. Annandale, and A. Dinar *Economic and Engineering Evaluation of Alternative Strategies for Managing Sedimentation in Storage Reservoirs* World Bank, 2003.

- [10] Maria-Saleth, R. and A. Dinar, *The Institutional Economics of Water: A Cross-Country Analysis of Institutions and Performance*. Cheltenham: Edward Elgar, 2004.
- [11] Kemper, K. B. Blomquist and A. Dinar (Eds.), *Integrated Riverbasin Management through Decentralisation*. Berlin: Springer, 2006.
- [12] Dinar, A., S. Dinar, S. McCaffrey, and D. McKinney, *Bridges over Water: Understanding Transboundary Water Conflicts, Negotiation and Cooperation*. World Scientific Publishers 2007.
- [13] Dinar, A., J. Albiac, and J. Sanchez-Soriano (Eds.), *Game Theory and Policy Making in Natural Resources and the Environment*. London: Routledge Publishing, 2008.
- [14] Dinar, A., R. Hassan, R. Mendelsohn, J. Benhin, and others, *Climate Change and Agriculture in Africa: Impact Assessment and Adaptation Strategies*. London: EarthScan, 2008.
- [15] Garrido, A. and A. Dinar (Eds.), *Managing Water Resources in a Time of Global Change: Mountains, Valleys and Flood Plains*. London: Routledge, 2009.
- [16] Dinar, A. and J. Albiac (Eds.), *Policy and Strategic Behaviour in Water Resource Management*, EarthScan, 2009.
- [17] Albiac, J. and A. Dinar (Eds.), *The Management of Water Quality and Irrigation Technologies*, EarthScan 2009.
- [18] Mendelsohn, R. and A. Dinar, *Climate Change and Agriculture: An Economic Analysis of Global Impacts, Adaptation, and Distributional Effects*. Cheltenham: Edward Elgar, 2009.
- [19] Dinar, A. and R. Mendelsohn (Eds.), *Handbook of Climate Change and Agriculture*. Cheltenham: Edward Elgar, 2012.
- [20] Hanak, E., J. Lund, A. Dinar, B. Gray, R. Howitt, J. Mount, P. Moyle, B. Thompson, *Managing California's Water: From Conflict to Reconciliation*. San Francisco: PPIC, 2011.
- [21] Dinar, A., S. Dinar, S. McCaffrey, and D. McKinney, *Bridges over Water: Understanding Transboundary Water Conflicts, Negotiation and Cooperation*. Second Edition. World Scientific Publishers 2013.
- [22] Dinar, A., D. F. Larson, and S. M. Rahman, *The Clean Development Mechanism: An Early History of Unanticipated Outcomes*, World Scientific Publishers, 2013.
- [23] Dinar, A. and A. Rapoport (Eds.), *Analyzing Global Environmental Issues: Theoretical and Experimental Applications and their Policy Implications*, Routledge, 2013.
- [24] Dinar, A. and K. Schwabe (Eds.), *Handbook of Water Economics*, Edward Elgar Publishers, 2015.
- [25] Dinar, A., V. Pochat, and J. Albiac (Eds.), *Water Pricing Experiences and Innovations*, Springer Publishing, 2015.
- [26] Mutondo, J., S. Farolfi, and A. Dinar, *Water Governance Decentralization in sub-Saharan Africa: Between Myth and Reality*, SpringerBriefs, 2016.
- [27] Dinar, S. and A. Dinar, *International Water Scarcity and Variability: Managing Resource Use Across Political Boundaries*, University of California Press, 2017.
- [28] Dinar, A. and Y. Tsur, *Management of Transboundary Water Resources Under Scarcity: A Multidisciplinary Approach*, World Scientific Publishers, 2017.
- [29] Dinar, A. and Y. Tsur, *Economics of Water Resources*, Cambridge University Press, (Under contract, in preparation).

### **Book Series and Sets**

- [1] Dinar, A. and D. Zilberman (Series Editors), *Natural Resource Management and Policy*. Kluwer Academic Publishers (Starting January 2005—Springer), Boston, MA, 1992-2005.
- [2] Dinar, A. (Series Editor), *Issues in Water Resource Policy*. Resources for the Future Press, Washington, DC, 2003- 2009.
- [3] Dinar, A., J. Albiac, S. Farolfi, and R. Maria Saleth (Series Editors), *Global Issues in Water Policy*. Springer, Berlin, 2010-.
- [4] Dinar, A. (Editor-in-Chief), *The WSPC Reference Set of Natural Resources and Environmental Policy in the Era of Global Change*. World Scientific Publishers, Singapore, 2013-2016.
- [5] Dinar, A. (Series Editor), *The WSP Lecture Notes in Economics* (<http://www.worldscientific.com/series/wslne>). World Scientific Publishers, Singapore, 2015-.

### **Special Journal Issues**

- [1] Dinar, A. (Guest Editor), Technology and Innovation in Agriculture and Natural Resources. *Technological Forecasting and Social Change*, 43 (3-4), 1993.
- [2] Dinar, S., and A. Dinar (Guest Editors). Negotiating in International Watercourses: Water Diplomacy, Conflict and Cooperation. *International Negotiation*, 5(2), 2000.
- [3] Dinar, A. (Section Convener). Transboundary Water Conflict and Cooperation. *Water Resources Research*. 40(5), 2004.
- [4] R. Maria Saleth, A. Dinar, and M. Samad (Guest Editors). Water Institutional Reforms: National and Global Perspectives, *Water Policy*. 7(1), 2005.
- [5] Patrone, F., J. Sanchez-Soriano, and A. Dinar (Guest Editors). Game Theory Practice in Natural Resources and the Environment. *International Game Theory Review* 10(3), September, 2008.
- [6] Sumaila, R., A. Dinar, and J. Albiac (Guest Editors) Game Theory Practice in Natural Resources and the Environment. *Environment and Development Economics* (2009).
- [7] Hassan, R., A. Dinar, and R. Mendelsohn. Climate Change and African Agriculture. *African Journal of Agricultural and Resource Economics* 2(1), March 2008.
- [8] Dinar, A. and G. Zaccour (Guest Editors), Special Issue of Game Theory Applications to Environmental and Developmental Issues. *Environment and Development Economics* 18(1), February 2013.
- [9] Patrone, F., and A. Dinar (Guest Editors), Special Issue of Game Theory Applications to Global and International Issues. *International Game Theory Review* 14(4), 2013.
- [10] Dinar, A., (Special Theme Editor), Special Theme Issue: Water Scarcity, Food Production, and Environmental Sustainability—Can Policy Make Sense? Choices, Quarter 3, 2016. <http://www.choicesmagazine.org/choices-magazine/theme-articles/theme-overview-water-scarcity-food-production-and-environmental-sustainabilitycan-policy-make-sense/theme-overview-water-scarcity-food-production-and-environmental-sustainabilitycan-policy-make-sense>.

**Papers Published in Refereed Journals** (\* indicates a paper with graduate student, visiting student, or postdoc)

- \*[162] Chatterjee, D., A. Dinar, G. Gonzalez-Rivera, An Empirical Knowledge Production Function of Agricultural Research and Extension: The Case of the University of California Cooperative Extension. *Technological Forecasting and Social Change* (Accepted for Publication June 19, 2018), 134:290-297.
- [161] Esteban, E., A. Dinar, J. Albiac, A. Calera, M. García Mollá, L. Avellá, Interest Groups Perceptions on Water Policy Reforms: Insight from a Water Stressed Basin, *Water Policy* (Accepted for Publication April 18, 2018).
- \*[160] Jiang, Y. A. Dinar, and P. Hellegers, Economics of Social Trade-off: Balancing Wastewater Treatment Cost and Ecosystem Damage, *Journal of Environmental Management* (Accepted for Publication January 15, 2018).
- \*[159] Tellez-Foster E., A. Rapoport, and A. Dinar, Alternative Policies to Manage Electricity Subsidies for Groundwater Extraction: A Field Study in Mexico, *Journal of Behavioral Economics for Policy* (Accepted for Publication October 1, 2017).
- \*[158] Jammalamadaka U. K. and A. Dinar, Managing Water Resources Under Scarcity: The Role of Social Norms, *Journal of Environmental Economics and Policy* (Accepted for Publication June 12, 2017), 7(1):16-40.
- \*[157] Tellez-Foster E., A. Rapoport, and A. Dinar, Groundwater and Electricity Consumption under Alternative Subsidies: Evidence from Laboratory Experiments, *Journal of Behavioral and Experimental Economics* (Accepted for Publication March 13, 2017), 68:41–52.
- [156] Moretti, S., F. Patrone, A. Dinar, and S. Abdel-Dayem, Sharing the Costs of Complex Water Projects: Application to the West Delta Water Conservation and Irrigation Rehabilitation Project, Egypt. *Games*. (Accepted for Publication July 3, 2016), 7, 18; doi:10.3390/g7030018, 2016.
- \*[155] Regnacq, C., A. Dinar, and E. Hanak, The Gravity of Water: Water Trade Frictions in California. *American Journal of Agricultural Economics*. (Accepted for Publication May 27, 2016), 98(5):1273-1294, doi: 10.1093/ajae/aaw051, 2016.



- \*[154] Kahil, M. T., J. Albiac, A. Dinar, E. Calvo, E. Esteban, L. Avella, M. Garcia-Molla, The Debate on Water Policies: Evidence from Drought in Spain, *Water* (Accepted for Publication January 17, 2016), 8(2), 34. doi:10.3390/w8020034, 2016 (15 pp.).
- [153] Ortiz-Correa, J., M. Resende and A. Dinar, Impact of Access to Water and Sanitation Services on Educational Attainment, *Water Resources & Economics* (Accepted for Publication November 23, 2015). <http://dx.doi.org/10.1016/j.wre.2015.11.002i>, 14:31-43, 2016.
- \*[152] Ashraf, A., A. Dinar, E. Monteiro, and T. Gaston, Adaptation in California Agriculture: What Have We Been Assessing for Two and a Half Decades? *Climate Change Economics* (Accepted for Publication, October 21, 2015), 7(2), 2016, 1650001, DOI: 10.1142/S2010007816500019 (19 pp.)
- [151] Rahman, Shaikh M., A. Dinar, and D. F. Larson, Incidence and Extent of the CDM across Developing Countries. *Environment and Development Economics* (Accepted for Publication, October 11, 2015). <http://dx.doi.org/10.1017/S1355770X15000388>, January 2016 (24 pp.).
- [150] Dinar, A., J. Ortiz-Correa, S. Farolfi, J. Mutondo, Quantifying the Process and Performance of River Basin Water Management Decentralization in Sub-Saharan Africa. *Journal of African Economies* (Accepted for Publication, October 8, 2015), 25(2):267-299.
- \*[149] Kahil, M. T., A. Dinar, J. Albiac, Cooperative Water Management and Ecosystem Protection under Scarcity and Drought in Arid and Semiarid Regions. *Water Resources & Economics* (Accepted for Publication, October 5, 2015), 13:60–74, 2016.
- \*[148] Esteban, E. and A. Dinar, The Role of Groundwater-dependent Ecosystems in Groundwater Management. *Natural Resource Modeling* (Accepted for Publication September 23, 2015), 29(1):98-129, 2016. [2016 winner of the Rollie Lamberson Research Award Medal of the Natural Resources Association.]
- [147] Nigatu, G. and A. Dinar, Economic and Hydrological Impacts of the Grand Ethiopian Renaissance Dam on the Eastern Nile River Basin. *Environment and Development Economics* (Accepted for Publication September 16, 2015). doi:10.1017/S1355770X15000352, 21(4): 532 – 555, August 2016.
- [146] Dinar, A. and M. Hogarth, Game Theory and Water Resources: Critical Review of its Contributions, Progress and Remaining Challenges. *Foundations & Trends in Microeconomics* (Accepted for Publication March 7, 2015), 11(1–2):1–139, 2015.
- \*[145] Kahil, M. T., A. Dinar, J. Albiac, Modeling Water Scarcity and Droughts for Policy Adaptation to Climate Change in Arid and Semiarid Regions. *Journal of Hydrology* (Accepted for Publication December 16, 2014), 522:95–109, 2015.
- [144] Botelho, A., A. Dinar, L. Pinto, A. Rapoport, Promoting Cooperation in Resource Dilemmas: Predictions and Experimental Evidence. *Journal of Behavioral and Experimental Economics* (Accepted for publication November 27, 2014), 54:40-49, 2015.
- [143] Pham Do, K. H., and A. Dinar, The Role of Issue Linkage in Managing Non-cooperating Basins: the Case of the Mekong. *Natural Resource Modeling* (Accepted for publication October 27, 2014), 27(4):492-518, 2014.
- [142] Zawahri, N., A. Dinar, and G. Nigatu, Governing International Freshwater Resources: An Analysis of Treaty Design, *International Environmental Agreements: Politics, Law and Economics* (Accepted for publication, July 7, 2014), 16(2):307–331.
- [141] Dinar, A., Water and Economy-Wide Policy Interventions, *Foundations and Trends in Microeconomics*, (Accepted for publication, May 12, 2014), 10(2):85–164, 2014.
- [140] Baerenklau, K., K. Schwabe, and A. Dinar, The Residential Water Demand Effect of Increasing Block Rate Water Budgets, *Land Economics*, (Accepted for Publication, February 5, 2014), 90(4):683-699, 2014.
- [139] Botelho, A., A. Dinar, L. Pinto, and A. Rapoport, Time and Uncertainty in Resource Dilemmas: Equilibrium Solutions and Experimental Results, *Experimental Economics*, (Accepted for Publication, December 23, 2013), 17(4):649-672, 2014.
- \*[138] Madani, K. and A. Dinar, Exogenous Regulatory Institutions for Sustainable Common Pool Resource Management: Application to Groundwater, *Water Resources & Economics*, (Accepted for Publication August 13, 2013), 2-3:57-76, 2013.
- [137] Rahman, S. M., D. F. Larson, and A. Dinar, Costs of Greenhouse Gas Emissions Abatement under the Clean Development Mechanism, *Climate Change Economics*, (Accepted for Publication, July 23, 2013), 6(1): doi: 10.1142/S2010007815500050, 2015

- \*[136] Dinar, A. and G. Nigatu, Distributional Considerations of International Water Resources under Externality: The Case of Ethiopia, Sudan and Egypt on the Blue Nile, *Water Resources & Economics*, (Accepted for Publication July 21, 2013), 2–3:1–16 [Lead Article].
- [135] Ambec, S., A. Dinar and D. McKinney, Water Sharing Agreements Sustainable to Reduced Flows, *Journal of Environmental Economics and Management*, (Accepted for Publication June 4, 2013), 66(3):639–655, 2013.
- [134] Patrone F. and A. Dinar, Strategic Behavior in Global and International Interactions, *International Game Theory Review*, 14(4):1-4, 2013.
- \*[133] Esteban, E. and A. Dinar, Modeling Sustainable Groundwater Management: Packaging and Sequencing of Policy Interventions. *Journal of Environmental Management*, (Accepted for Publication, December 28, 2012), 119:93-102, 2013.
- [132] Dinar, A. and G. Zaccour, Strategic Behavior and Environmental Commons. *Environment and Development Economics*, 18(1):1-5, 2013.
- \*[131] Dinar, A. and U. Kumar Jammalamadaka, Adaptation of Irrigated Agriculture to Adversity and Variability under Conditions of Drought and likely Climate Change: Interaction between Water Institutions and Social Norms. *International Journal of Water Governance*. (Accepted for Publication, October 4, 2012), 1:41–64, 2013.
- \*[130] Madani, K. and A. Dinar, Cooperative Institutions for Sustainable Common Pool Resource Management: Application to Groundwater. *Water Resources Research*. (Accepted for Publication, August 3, 2012), 48(9): DOI: 10.1029/2011WR010849, 2012.
- \*[129] Esteban, E. and A. Dinar, Cooperative Management of Groundwater Resources in the Presence of Environmental Externalities. *Environmental and Resource Economics*. (Accepted for publication, June 8, 2012), 54:443–469, 2013.
- [128] Dinar, A., D. F. Larson, and J. A. Frisbie, How California can take advantage of the Clean Development Mechanism to achieve its AB 32 goals by 2020. *California Agriculture*. (Accepted for Publication, May 21, 2012), 66(4):137-143, 2012.
- [127] Pham Do K. H., A. Dinar, and D. McKinney, Transboundary Water Management: Can Issue Linkage Help Mitigate Externalities? *International Game Theory Review*. (Accepted for Publication, December 18, 2011), 14(1):39-59, 2012.
- \*[126] Madani, K. and A. Dinar. Non-Cooperative Institutions for Sustainable Common Pool Resource Management: Application to Groundwater. *Ecological Economics*. (Accepted for Publication, December 7, 2011), 74:34-45, 2012.
- [125] Fleischer, A., R. Mendelsohn, and A. Dinar. Bundling Agricultural Technologies to Adapt to Climate Change. *Technological Forecasting and Social Change*. (Accepted for Publication February 19, 2011), 78:982–990, 2011.
- [124] Wang, J., R. Mendelsohn, A. Dinar, and J. Huang. How Chinese Farmers Change Crop Choice to Adapt to Climate Change. *Climate Change Economics*. (Accepted for Publication November 16, 2010), 1(3):167-185, 2010.
- [123] Dinar, A., S. M. Rahman, D. F. Larson, P. Ambrosi, Act Locally Affect Globally: International Cooperation in Carbon Abatement Projects. *Global Environmental Politics*. (Accepted for publication September 13, 2010), 11(4):108-133, 2011.
- [122] Dinar, A., B. Blankespoor, S. Dinar, and P. Kulukurasuriya, Does Precipitation and Runoff Variability Affect Treaty Cooperation between States Sharing International Bilateral Rivers? *Ecological Economics* (Accepted for publication July 27, 2010), 69(12):2508-2581, 2010.
- [121] Dinar, S., A. Dinar, and P. Kurukulasuriya, Scarcity and Cooperation Along International Rivers: An Empirical Assessment of Bilateral Treaties. *International Studies Quarterly* (Accepted for Publication May 26, 2010), 55:809–833, 2011.
- [120] Rahman, S. M. A. Dinar, and D. F. Larson, Diffusion of Kyoto’s Clean Development Mechanism, *Technological Forecasting and Social Change*. (Accepted for publication March 3, 2010), 77:1391-1400, 2010.
- [119] Hanak, E., J. Lund, A. Dinar, B. Gray, R. Howitt, J. Mount, P. Moyle, and B. Thompson, Myths of California Water – Implications and Reality. *West Northwest Journal of Environmental Law & Policy* 16(1):1-73, Winter 2010.
- [118] Dinar, A., and D. McKinney, Realizing Conflict, Negotiation, and Cooperation Concepts in the Context of International Water Courses. *Journal of Political Science Education*, (Accepted for Publication September 22, 2009), 6:188-209, 2010.

- [117] Saleth, Maria R., and A. Dinar, Impact Synergies and Institutional Roles in Development Processes: Modeling the Effects of Multiple Policy Interventions on Food Security. *Journal of Policy Modeling*, 31:923-938, 2009. (Accepted for Publication, July 6, 2009).
- [116] Mendelsohn, R., and A. Dinar, Land Use and Climate Change Interactions, *Annual Review of Resource Economics* (Accepted for publication May 1, 2009), 1:309-332, 2009.
- [115] Wang, J., R. Mendelsohn, A. Dinar, J. Huang, S. Rozelle, and L. Zhang, The Impact of Climate Change on China's Agriculture. *Agricultural Economics* 40(3):323-337, 2009.
- [114] Blomquist, W., A. Dinar, and K. Kemper. A Framework for Institutional Analysis of Decentralization Reforms in Natural Resource Management. *Society & Natural Resources* (Accepted for Publication November 27, 2008), 23(7): 620 – 635, 2010.
- [113] Larson, D. F., P. Ambrosi, A. Dinar, S. M. Rahman, and R. Entler, A Review of Carbon Market Policies and Research. *International Review of Environment and Resource Economics* 2(3): 177-236, 2008. <http://dx.doi.org/10.1561/101.00000016>
- [112] Kempkey, N., M. Pinard, V. Pochat, A. Dinar, Negotiations over Water and other Natural Resources in The La Plata River Basin: A Model for other Transboundary Basins? *International Negotiation*, 14:253–279, 2009.
- [111] Seo, N. S., R. Mendelsohn, A. Dinar, and P. Kurukulasuriya, Adapting to Climate Change Mosaicly: An Analysis of African Livestock Management by Agro-Ecological Zones. *The B.E. Journal of Economic Analysis & Policy*, 9(2) (Contributions), Article 4, 2009. Available at: <http://www.bepress.com/bejeap/vol9/iss2/art4>.
- [110] Gilman, P., V. Pochat and A. Dinar, Whither La Plata? Assessing the state of transboundary water resource cooperation in the basin. *Natural Resources Forum*, 32:203-214, 2008.
- [109] Seo N., R. Mendelsohn , A. Dinar , R. Hassan, and P. Kurukulasuriya, A Ricardian Analysis of the Distribution of Climate Change Impacts on Agriculture across Agro-Ecological Zones in Africa. *Environmental and Resource Economics*, 43:313–332, 2009.
- [108] Sumaila, R. U., A. Dinar, and J. Albiac, Game Theoretic Applications to Environmental and Natural Resource Problems. *Environment and Development Economics*, (accepted for Publication, March 15, 2008), 14:1-5, 2008.
- [107] Murphy, J., A. Dinar, R. Howitt, S. Rassenti, V. Smith, and M. Weinberg, Incorporating In-stream Flow Values into a Water Market, *Journal of Environmental Management*, 90(2):1089-1096, 2009.
- [106] Maria-Saleth, R. and A. Dinar, Linkages within Institutional Structure: An Empirical Analysis of Water Institutions, *Journal of Institutional Economics*, 4(3):375-401, 2008.
- [105] Patrone, F., J. Sanchez-Soriano, and A. Dinar, Does Game Theory Have a Role to Play in Policy Making in Natural Resources and the Environment, *International Game Theory Review*, 10(3): 221–228, 2008.
- [104] Dinar, A., K. Kemper, W. Blomquist and P. Kurukulasuriya, Whitewater: Process and Performance of Decentralization Reform of River Basin Water Resource Management, *Journal of Policy Modeling*, 29(6):851-867, 2007.
- [103] Diao, X., A. Dinar, T. Roe and Y. Tsur, A General Equilibrium Analysis of Conjunctive Ground and Surface Water Use with an Application to Morocco, *Agricultural Economics* 38:117-135, 2008.
- [102] Dinar, A., H. Guerrero Garcia Rojas, A. Yunez Naude, and J. Medellín Azuara, El Agua en México: Políticas en el Sector Agua, Herramientas para la Evaluación de sus Implicaciones económicas y Ambientales: Una Visión Panorámica, *Fondo de Cultura Económica*, Lecturas de El Trimestre Económico N° 100. Ed. (July 2008), pp. 11-29.
- [101] Dinar, A. H. Guerrero, A. Yunez-Naude, J. Medellin-Azuara, and M. Asad, El agua en México: Reflexiones e Implicaciones de Política, *Fondo de Cultura Económica*, Lecturas de El Trimestre Económico N° 100. Ed. (July 2008) pp. 211-213.
- [100] Dinar, A., G. Karagiannis and V. Tzouvelekas Evaluating the Impact of Agricultural Extension on Farms Performance in Crete: A Non-Neutral Stochastic Frontier Approach, *Agricultural Economics*, 36(2):135–146, 2007 Lead Article.
- [99] Mendelsohn, R., A. Basist, A. Dinar, P. Kurukulasuriya and C. Williams, What Explains Agricultural Performance: Climate Normals or Climate Variance?, *Climatic Change* 81(1):85-99, 2007.

- [98] Mendelsohn, R., A. Basist, P. Kurukulasuriya and A. Dinar, Climate and Rural Income, *Climatic Change* 81(1):101-118, 2007.
- [97] Kurukulasuriya P., R. Mendelsohn, R. Hassan, J. Benhin, T. Deressa, M. Diop, H. Mohamed Eid, K. Yerfi Fosu, G. Gbetibouo, S. Jain, A. Mahamadou, R. Mano, J. Kabubo-Mariara, S. El-Marsafawy, E. Molua, S. Ouda, M. Ouedraogo, I. Sène, D. Maddison, S. Niggol Seo, and Ariel Dinar, Will African Agriculture Survive Climate Change? *World Bank Economic Review*, 20(3):367-388, 2006.
- [96] Dinar, A. and R. Maria Saleth, Can Water Institution Be Cured: A Water Institutions Health Index, *Water Science and Technology: Water Supply Journal* 5(6):17-40, 2005.
- [95] Roe, T. L., A. Dinar, Y Tsur, and X. Diao, Feedback Links Between Economy-Wide and Farm-Level Policies: With Application to Irrigation Water Management in Morocco, *Journal of Policy Modeling*, 27(8):905-928, 2005.
- [94] Maria-Saleth, R. and A. Dinar, Water Institutional Reforms: Theory and Practice, *Water Policy*, 7(1):1-19, 2005.
- [93] Mendelsohn, R., A. Dinar, and L. Williams, The Distributional Impact of Climate Change on Rich and Poor Countries *Environment and Development Economics*, 11(2):159-178, 2005. Lead Article.  
(Reproduced in: Fullerton, D. (Ed.), *Distributional Effects of Environmental and Energy Policy. The International Library of Environmental Economics and Policy* (Tietenberg, T. and K. Seageron (Eds.), Ashgate Publishing, Sept, 2009.)
- [92] Dinar, A. Exploring Transboundary Conflict and Cooperation *Water Resources Research*, 40, W05S01, 2004.
- [91] Dinar, A. and J. Mody, Irrigation Water Management Policies: Pricing and Allocation Principles and Implementation Experiences *Natural Resources Forum*, 28:112-122, 2004.
- [90] Tsur, Y., A. Dinar, R. Doukkali, and T. Roe, Irrigation Water Pricing: Policy Implications based on International Comparison *Environment and Development Economics*, 9(6):735-755, 2004.
- [89] Dinar, A., T. Balakrishnan, and J. Wambia, Politics of Institutional Reforms in the Water and Drainage Sector of Pakistan, *Environment and Development Economics*, 9:409-445, 2004.
- [88] Dinar S. and A. Dinar, Recent Developments in the Literature on Conflict and Cooperation in International Shared Water, *Natural Resources Journal*, 43(4):1217-1287, 2003.
- [87] Mendelsohn, R. and A. Dinar, Climate Water and Agriculture, *Land Economics*, 79(3):328-341, 2003.
- [86] Zekri, Slim and Ariel Dinar, Welfare Consequences of Water Supply Alternatives in Rural Tunisia, *Agricultural Economics*, 28(1):1-12, 2003 (Lead article).
- [85] Sunding, D., D. Zilberman, R. Howitt, A. Dinar, and N. MacDougall, Measuring the Costs of Reallocating Water from Agriculture: A Multi-Model Approach, *Natural Resource Modeling*, Volume 15(2), Summer 2002.
- [84] Tiwari, Dirgha, and Ariel Dinar, Balancing Future Food Demand and Water Supply: The Role of Economic Incentives in Irrigated Agriculture. *Quarterly Journal of International Agriculture*, 41(1/2):77-97, 2002.
- [83] Johansson, Robert C., Yacov Tsur, Terry L. Roe, Rachid M. Doukkali, and Ariel Dinar, Pricing and Allocation of Irrigation Water: A Review of Theory and Practice. *Water Policy*, 4(2): 173-199, 2002.
- [82] Dinar, A. and A. Xepapadeas. Regulating Water Quantity and Quality in Irrigated Agriculture: Learning by Investing under Asymmetric Information. *Environmental Modeling and Assessment*, 7(1):17-27, 2002.
- [81] Zilberman, D., A. Dinar, N. MacDougall, M. Khanna, C. Brown, and F. Castillo. Individual and Institutional Responses to the Drought: The Case of California Agriculture. *Journal of Contemporary Water Research & Education*, 12(1):17-23, 2002.
- [80] Dinar, A. and G. Keynan. The Economics of Paid-Extension: Lessons from Experience in Nicaragua. *American J. of Agricultural Economics*, 83(3):769-776, 2001 (August).
- [79] Dinar, A., Scale and Equity in Water Resources Development: A Nash Bargaining Model. *Natural Resource Modeling*, 14(4):477-494, 2001 (Lead article).
- [78] Kilgour, M. D. and A. Dinar, Flexible Water Sharing Within an International River Basin. *Environmental and Resource Economics*, 18(1):43-60, 2001.

- [77] Palmieri, A., F Shah, and A Dinar, Economics of Reservoir Sedimentation and Sustainable Management of Dams. *Journal of Environmental Management*, 61(2):149-163, 2001.
- [76] Maria-Saleth, R. and A. Dinar, Preconditions for Market Solutions to Urban Water Scarcity: Empirical Results from Hyderabad City, India, *Water Resources Research*, 37(1):119-132, 2001.
- [75] Mendelsohn, R., A. Dinar, and A. Sanghi, The Effect of Development on the Climate Sensitivity of Agriculture. *Environment and Development Economics*, 6:85-101,2001.
- [74] Dinar, S. and A. Dinar, Negotiating in International Water Courses: Diplomacy, Conflict and Cooperation. *International Negotiation*, 5(2):193-200, 2000.  
Published also in Feldman, D. L., (Ed.), The Geopolitics of Natural Resources, Edward Elgar Publishers, Cheltenham, UK, 2011.
- [73] Maria-Saleth, R. and A. Dinar, Institutional Change in Global Water Sector: Trends, Patterns and Implications. *Water Policy*, 2(3):175-199, 2000.
- [72] Murphy, J. J., A. Dinar, R. E. Howitt, S. J. Renzetti, and V. L. Smith, The Design of ‘Smart’ Water Market Institutions Using Laboratory Experiments. *Environmental and Resource Economics*, 17 (4):375-394, December 2000.
- [71] Dinar, A. and S. Alemu, The Process of Negotiation over International Water Disputes-The Case of the Nile Basin. *International Negotiation*, 5(2):311-330, 2000.
- [70] Dinar, A. Water Policy Reforms: Information Needs and Implementation Obstacles. *Water Policy*, 1(4):367-382, 1998. (Lead article).
- [69] Mendelsohn, R. and A. Dinar, Climate Change, Agriculture, and Developing Countries: Does Adaptation Matter? *World Bank Research Observer*, 14(2):277-293, 1999.
- [68] Dinar, A., G. Keynan, Medicion del Costo y Algunos Indicadores de Rendimiento de la Extension Pagada: El Caso de la Transferencia de Tecnologia Agricola en Nicaragua. *Debate Agrario*, 29/30, September 1999.
- [67] K. W. Easter, M. W. Rosegrant, and A. Dinar, Formal and Informal Markets for Water: Institutions, Performance and Constraints. *World Bank Research Observer*, 14(1):99-116, 1999.
- [66] Dinar, A. and A. Xepapadeas, Regulating Water Quantity and Quality in Irrigated Agriculture. *Journal of Environmental Management*, 54:273-289, 1998.
- [65] Dinar, A. and S. Alemu, The Dynamics of Negotiation Processes on International Water Disputes—The case of the Nile Basin. *Columbia International Affairs Online*, December, 1998.
- [64] Keynan, G., M. Olin, and A. Dinar, Extension Publica Cofinanciera en Nicaragua. *Debate Agrario*, 28:129-154, 1998.
- [63] Dinar, A. and A. Subramanian, Policy Implications from Water Pricing Experiences in Various Countries. *Water Policy*, 1(2):239-250, 1998.
- [62] Dinar, A., The Economics of BINGO Games: Leisure and Revenue. *Journal of Applied Recreational Research*, 22(2):107-121, July 1998.(Lead Article)
- [61] Keynan, G., M. Olin, and A. Dinar, Cofinanced Public Extension in Nicaragua. *World Bank Research Observer*, 12(2):225-247, 1997.
- [60] Dinar, A. and A. Wolf, Economic and Political Considerations in Regional Cooperation Models. *Agricultural and Resource Economics Review*, 26(1):7-22, 1997. (1997 best article)
- [59] Kaufman, E., J. Oppenheimer, A. Wolf, and A. Dinar, Transboundary Fresh Water Disputes and Conflict Resolution: Planning an Integrated Approach. *Water International*, 22(1):37-48, 1997.
- [58] Dinar, A. and A. Keck, Private Irrigation Investment in Colombia: Effect of Violence, Macroeconomic Policy, and Environmental Conditions, *Agricultural Economics*, 16:1-15, 1997, (Lead article).
- [57] Lee, D. and A. Dinar, Integrated Approaches of River Basin Planning, Development, and Management, *Water International*, 21:213-222, 1996.
- [56] Tsur, Y. and A. Dinar, On the Relative Efficiency of Alternative Methods for Pricing Irrigation Water and their Implementation. *World Bank Economic Review*, 11(2):243-262, 1997.
- [55] Massad, S. and A. Dinar, Economic Aspects of Jet Fuel Spill During Air force Activity, Illustrated Using a Case Study from Israel. *Journal of Environmental Systems*, 25(1):65-80, 1996.
- [54] Zeitouni, N. and A. Dinar, Mitigating Negative Water Quantity and Quality Externalities by Joint Management of Adjacent Aquifers, *Environmental and Resource Economics*, 9:1-20, 1997, (Lead article).

- [53] Dinar, A. And R. E. Howitt, Mechanisms for Allocation of Environmental Cost: Empirical Tests of Acceptability and Stability. *Journal of Environmental Management*, 49:183-203, 1997.
- [52] Dinar, A., Extension Commercialization: How Much to Charge for Extension Services. *American Journal of Agricultural Economics*, 78(1):1-12 February, 1996 (Lead article).
- [51] Moore, M. and A. Dinar, Water and Land as Quantity-Rationed Inputs in California Agriculture: Empirical Tests and Water Policy Implications. *Land Economics*, 71(4):445-461, November 1995.
- [50] Zilberman, D., D. Sunding, R. Howitt, A. Dinar, and N. Mac Dougall, Water For California Agriculture, Lessons from the Drought and New Water Market Reform. *Choices*, Fourth Quarter, 25-28, 1994.
- [49] Dinar, A. and A. Keck, Determinantes de la Inversion Privada en Riego en Colombia (Efectos de la Violencia, la Politica Macroeconomica y las Variables Ambientales). *Planeacion y Desarrollo*, 26(1):203-222, Enero-Abril de 1995.
- [48] Wolf, A. and A. Dinar, Middle East Hydropolitics and Equity Measures for Water-Sharing Agreements. *Journal of Social, Political, and Economic Studies*, 19(1):69-93, Spring, 1994.
- [47] Dinar, A. and D. Zilberman, Economia de las Tecnologias de Riego Modernas: Lecciones de la Experiencia Israeli. *Revista De Estudios Agro-Sociales*, 167(1):154-183, June 1994.
- [46] Dinar, A. and A. Wolf, Economic Potential and Political Considerations of Regional Water Trade: The Western Middle East Example. *Resources and Energy Economics*, 16:335-356, 1994.
- [45] Dinar, A. and A. Wolf, International Markets for Water and the Potential for Regional Cooperation: Economic and Political Perspectives in the Western Middle East. *Economic Development and Cultural Change*, 43(1):43-66, 1994.
- [44] Dinar, A., Impact of Energy Cost and Water Resource Availability and Quality on Agriculture and Groundwater Quality in California. *Resources and Energy Economics*, 16:47-66, 1994.
- [43] Loehman, E. and A. Dinar, Cooperative Solution of Local Externality Problems: A Case of Mechanism Design Applied to Irrigation. *Journal of Environmental Economics and Management*, 26:235-256, 1994.
- [42] Dinar, A., R. E. Howitt, and D. Zilberman, The Dilemma of Irrigated Agricultural Development and Environmental Pollution: Lessons from the Westside San Joaquin Valley, California. *ERS Staff Papers*, USDA Economic Research Service, #9427, December 1994.
- [41] Campbell, M. B., and A. Dinar, Farm Organization and Resource Use. *Agribusiness*, 9(5):465-480, 1993.
- [40] Dinar, A., M. Aillery, and M. Moore, A Dynamic Model of Soil Salinity and Drainage Generation in Irrigated Agriculture: A Framework for Policy Analysis. *Water Resources Research*, 29(6):1527-1537, 1993.
- [39] Dinar, A. Economic Factors and Opportunities as Determinants of Water Use Efficiency in Agriculture. *Irrigation Science*, 14(2):47-52, 1993.
- [38] Dinar, A., M. B. Campbell, and D. Zilberman, Adoption of Improved Irrigation and Drainage Reduction Technologies Under Limiting Environmental Conditions. *Environmental & Resource Economics*, 2:373-398, 1992.
- [37] Zilberman, D., A. Schmitz, A. Dinar, and F. Shah, A Water Scarcity or a Water Management Crisis? *Canadian Water Resources J.*, 18(1):159-171, 1993.
- [36] Dinar, A., D. Yaron and A. Baruchin, Alternative Cropping Systems and Intensive Irrigation under Arid Zone Conditions. *Agricultural Systems*, 38:301-318, 1992.
- [35] Yaron, D., A. Dinar and H. Voet, Innovation on Family Farms: the Case of the Nazareth Region in Israel. *American J. of Agricultural Economics*, 74(2):361-370, 1992.
- [34] Campbell, M. B. and A. Dinar, An Organizational Classification of Farms on the West Side of the San Joaquin Valley. *California Agriculture*, 46(1):35-39, 1992.
- [33] Dinar, A. and D. Yaron, Adoption and Abandonment of Irrigation Technologies. *Agricultural Economics*, 6(4):315-332, 1992.
- [32] Dinar, A., A. Ratner and D. Yaron, Evaluating Cooperative Game Theory in Water Resources. *Theory and Decision*, 32:1-20, 1992. (Lead Article)
- [31] Dinar, A., S. Hatchett, and E. Loehman, Modeling Regional Irrigation Decisions and Drainage Pollution Control. *Natural Resource Modeling*, 5(2):191-212, 1991.

- [30] Dinar, A. and D. Zilberman, The Economics of Resource-Conservation, Pollution-Reduction Technology Selection: The Case of Irrigation Water. *Resources and Energy*, 13:323-348, 1991.
- [29] Dinar, A., Measuring Knowledge Production of an Agricultural Research System. *Technological Forecasting and Social Change*, 40:249-259, 1991.
- [28] Dinar, A. and J. Letey, Agricultural Water Marketing, Allocative Efficiency and Drainage Reduction. *Journal of Environmental Economics and Management*, 20(2):210-223, 1991.
- [27] Dinar, A., J. D. Rhoades, P. Nash and B. L. Waggoner, Production Functions Relating Crop Yield, Water Quality and Quantity, Soil Salinity and Drainage Volume. *Agricultural Water Management*, 19(1):51-66, 1991.
- [26] Dinar, A. and D. Yaron, Influence of Quality and Scarcity of Inputs on the Adoption of Modern Irrigation Technologies. *Western J. of Agricultural Economics*, 15(2):224-233, 1990.
- [25] Dinar, A. and D. Marom, Rates and Patterns of Computer Adoption and Use by Extension. *Technological Forecasting and Social Change*, 39:309-318, 1990.
- [24] Dinar, A., Resource Allocation for Agricultural Research. *Research Policy*, 20:145-152, 1990.
- [23] Knapp, K. C., A. Dinar and P. Nash, Economic Policies for Regulating Agricultural Drainage Water. *Water Resources Bulletin*, 26(2):289-298, 1990.
- [22] Dinar, A. and C. Efrat, Economic Threshold for Pathogenic Diseases: the Case of Varroasis in Bees. *Agricultural Systems* 32:13-25, 1990.
- [21] Letey, J., A. Dinar, C. Woodring and J. Oster, An Economic Analysis of Irrigation Systems. *Irrigation Science*, 11:37-43, 1990.
- [20] Letey, J. and A. Dinar, Water Marketing Effects on Agricultural Crop-Water Management. *California Agriculture*, November-December 43(6):15-16, 1989.
- [19] Dinar, A., Provision of and Request for Agricultural Extension Services. *American J. of Agricultural Economics*, 71(2):294-302, 1989.
- [18] Dinar, A. K. C. Knapp and J. Letey, Irrigation Water Pricing to Reduce and Finance Subsurface Drainage Disposal. *Agricultural Water Management*, 16:155-171, 1989.
- [17] Letey, J., A. Dinar and K. C. Knapp, Economic Incentives for Agricultural Drainage Reduction. *California Agriculture*, 42(3):12-13, 1988.
- [16] Dinar, A. and K. C. Knapp, Economic Analysis of On-Farm Solutions to Drainage problems in Irrigated Agriculture. *Australian J. of Agricultural Economics*, 32(1):1-14, 1988.
- [15] Knapp, K. C. and A. Dinar, Production with Optimum Irrigation Management Under Saline Conditions. *Engineering Costs and Production Economics*, 14(1):41-46, 1988.
- [14] Yaron, D., A. Dinar and S. Meyers, Irrigation Scheduling - Theoretical Approach and Application Problems. *Water Resources Management*, 1:17-31, 1987.
- [13] Dinar, A., Use of Interdisciplinary Models in Extension. *Agricultural Administration and Extension*, 24(3):165-76, 1987.
- [12] Knapp, K. C., A. Dinar and J. Letey, On-Farm Management of Agricultural Drainage Problems: An Economic Analysis. *Hilgardia*, 54(4):1-31, 1986.
- [11] Dinar, A., K. C. Knapp and J. D. Rhoades, Production Function for Cotton with Dated Irrigation Quantities and Qualities. *Water Resources Research*, 22(11):1519-25, 1986.
- [10] Dinar, A. and K. C. Knapp, A Dynamic Analysis of Optimal Water Use under Saline Conditions. *Western J. of Agricultural Economics*, 11(1):58-66, 1986.
- [9] Dinar, A., J. Letey and H. J. Vaux Jr., Optimal Ratios of Saline and Non-Saline Irrigation Waters for Crop Production. *Soil Science Society of America J.*, 50(2):440-43, 1986.
- [8] Dinar, A., D. Yaron and Y. Kannai, Sharing Regional Cooperative Gains from Reusing Effluent for Irrigation. *Water Resources Research*, 22(3):339-44, 1986.
- [7] Dinar, A. and D. Yaron, Treatment Optimization of Municipal Wastewater and Reuse for Regional Irrigation. *Water Resources Research*, 22(3):331-38, 1986.
- [6] Letey, J., A. Dinar and K. C. Knapp, Optimal Irrigation Management under Drainage and Saline Conditions. *California Agriculture*, 40(1,2):20-21, 1986.
- [5] Letey, J. and A. Dinar, Simulated Crop-Water Production Functions for Several Crops when Irrigated with Saline Waters. *Hilgardia*, 54(1):1-32, 1986.
- [4] Dinar, A., J. Letey and K. C. Knapp, Economic Evaluation of Salinity Drainage and Non-Uniformity of Infiltrated Irrigation Water. *Agricultural Water Management*, 10:221-33, 1985.

- [3] Letey, J., A. Dinar and K. C. Knapp, Crop-Water Production Function Model for saline Irrigation Waters. *Soil Science Society of America J.*, 49(4):1005-9, 1985.
- [2] Knapp, K. C. and A. Dinar, Reuse of Agricultural Water: An Economic Analysis. *Water Resources Bulletin*, 20(4):521-25, 1984.
- [1] Yaron, D. and A. Dinar, Optimal Allocation of Irrigation Water on a Farm During Peak Season. *American J. of Agricultural Economics*, 64:681-89, 1982.

### **Book Chapters**

- [1] Dinar, A. and D. Marom, Irrigation Considerations as Affected by Quantity-Quality Price System Incentives for Processing Tomatoes. In: *Optimal Yield Management*, Edited by D. Rymon, Gower Publishing Group, Hampshire, England, 1988.
- [2] Casterline, G., A. Dinar and D. Zilberman, The Adoption of Modern Irrigation Technologies in the United States. In: *Free Trade and Agricultural Diversification: Canada and the United States*. Edited by Andrew Schmitz. Westview press, Boulder, 1989.
- [3] Rhoades, J. D and A. Dinar, Strategies to Facilitate the Use of Agricultural Drainage Water and to Maximize the Beneficial Use of Multiple Water Supplies for Irrigation. In: *The Economics and Management of Water and Drainage in Agriculture*. In: Dinar, A. and D. Zilberman (eds.), Kluwer Academic Publishers, MA, 1991.
- [4] Dinar, A. and D. Zilberman, Effects of Input Quality and Environmental Conditions on Selection of Irrigation Technologies. In: *The Economics and Management of Water and Drainage in Agriculture*. In: A. Dinar and D. Zilberman (eds.), Kluwer Academic Publishers, MA, 1991.
- [5] Zilberman, D. and A. Dinar, Summary of Findings and Conclusions. In: *The Economics and Management of Water and Drainage in Agriculture*. In: A. Dinar and D. Zilberman (eds.), Kluwer Academic Publishers, MA, 1991.
- [6] Dinar, A. and J. Letey, Evaluation of Management and Policy Issues Related to Irrigation of Agricultural Crops. In: K. Tanji and B. Yaron (eds.) *Management of Water use in Agriculture*, Advance Series in Agricultural Sciences, Vol. 22, Springer-Verlag, Heidelberg 1994.
- [7] Dinar, A., E. T. Loehman, M. P. Aillery, M. R. Moore, R. E. Howitt and S. A. Hatchett, Regional Modeling and Economic Incentives to Control Drainage Pollution. In: Russell, C. and J. Shogren (eds.), *Theory, Modeling, and Experience in the Management of Nonpoint-Source Pollution*. Kluwer Academic Publishers, Boston, MA, 1993.
- [8] Dinar, A., Sustainable Agriculture and Innovative Technologies. In: Ballamy, M. and B. Greenchields (eds.), *Issues in Agricultural Development - Sustainability and Cooperation*, IAAE Occasional Paper No. 6:353, Dartmouth Publishing Company, Brookfield, Vermont, 1992.
- [9] Dinar, A., Economic and Policy Implications of Large Scale, Multi-Disciplinary Regional Resource Problems: The Experience of the SJVDP, California. In: Albisu Miguel and Carlos Romero (eds.), *Environmental and Land Use Issues in the Mediterranean Basin*, pg. 199-215, 1995.
- [10] Tsur Y. and A. Dinar, On the Relative Efficiency of Alternative Methods for Pricing Irrigation Water and their Implementation. In: Pigram, J. J., *Security and Sustainability in a Mature Water Economy-A Global Perspective*, Water and Resource Economics Consortium, Centre for Water Policy Research, Armidale NSW, Australia, pp. 73-98, 1996.
- [11] Dinar, A., D. Sanding, and D. Zilberman, Changes in Irrigation Technology and the Impact of reducing Agricultural Water Supplies. In: Hall, Darwin C., *Advances in the Economics of Environmental Resources, Volume 1 Marginal Cost Rate Design and Wholesale Water Markets*. JAI Press, Greenwich Connecticut, 167-183, 1996.
- [12] Dinar, A. and E. Keck, Water Supply Variability and Drought Impact and Mitigation in Sub-Saharan Africa. Chapter 38, In: Donald Wilhite (ed.) *Drought*, Volume II, Hazards and Disasters: A Series of Definitive Major Works, Routledge Publishers, London, 2000, 129-148.
- [13] Sunding, D., D. Zilberman, N. MacDougall, R. Howitt, and A. Dinar, Modeling the Impact of Reducing Agricultural Water Supplies: Lessons from California's Bay/Delta Problem. In: Parker, D. and Y. Tsur (eds.), *Decentralization and Coordination of Water Resources Management*, Kluwer Academic Publishers, Boston, Mass., 1997.
- [14] Easter, K. W., A. Dinar, and M. Rosegrant, The Performance of Water Markets: Transaction Costs, Interjurisdictional Barriers and Institutional Options. In: Just, R. and S. Netanyahu



- (eds.), *Conflict and Cooperation on Trans-Boundary Water Resources*. Kluwer Academic Publishers, pp. 299-313, 1998.
- [15] Dinar, A., R. Howitt, S. Rassenti, and V. Smith, Development of Water Markets Using Experimental Economics. In: Easter, K. W., M. Rosegrant, and A. Dinar (eds.), *Markets for Water - Potential and Performance*. Kluwer Academic Publishers, pp. 259-275, 1998.
- [16] Dinar, A., Irrigated Agriculture and the Environment - Problems and Issues in Water Policy. In OECD, *Sustainable Management of Water in Agriculture*, OECD, Paris, pp. 41-56, 1998.
- [17] Dinar, A., Political Economy of Water Pricing Reforms. In: Dinar, A. (Ed.), *The Political Economy of Water Pricing Reforms*, Oxford: Oxford University Press, 2000.
- [18] Dinar, A., Droughts, Crisis Management and Water Rights: An International Perspective. In: Feitelson, E. and M. Hadad, (Eds.), *Management of Shared Groundwater Resources*. Kluwer Academic Publishers, pp. 285-299, 2001.
- [19] Dinar, A., The Political Economy Context of Water Pricing Reforms. In: Koundouri, P., P. Pashardes, T. Swanson, and A. Xepapadeas (Eds.), *Economics of Water Management in Developing Countries: Problems, Principles and Policies*. Edward Elgar, 2003.
- [20] Dinar, A., El uso de Incentivos Economicos en la Políticas de Intervención en la Agricultura de Regadio. In: Murillo, Jose Albiac (Ed.), *Los Instrumentos Economicos en la Gestión del Agua en la Agricultura*. Madrid: Ediciones Mundi-Prensa, 2003.
- [21] Dinar, A. and R. Maria Saleth, Issues in Water Pricing Reforms: From Getting Correct Prices To Setting Appropriate Institutions. In: Henk Folmer and Tom Tietenberg, (Eds.), *The International Yearbook of Environmental and Resource Economics 2005/2006*. Cheltenham, UK: Edward Elgar, 2005.
- [22] R. Maria Saleth and A. Dinar, Water Institutional Reforms in Developing Countries: Insights, Evidences, and Case Studies. In: Michael Toman and Ramon Lopez (Eds.), *Economic Development and Environmental Sustainability New Policy Options*. New York: Oxford University Press, 2006.
- [23] Dinar, A., S. Moreti, F. Patrone, and S. Zara, Application of Stochastic Cooperative Game Theory in Water Resources. In: Renan Goetz and Dolores Braga (Eds.) *New Frontiers in Water Resource Economics*, Springer, 2006.
- [24] Murphy, J. J., A. Dinar, R. E. Howitt, E. Mastrangelo, S. J. Rassenti, and V. L. Smith, Mechanisms for Addressing Third Party Impacts Resulting from Voluntary Water Transfers. In: John List (Ed.) *Using Experimental Methods in Environmental and Resource Economics*. Cheltenham, UK: Edward Elgar, 2006.
- [25] Dinar, A., K. E. Kemper and W. Blomquist. Determinants of River Basin Management Decentralization: Motivation, Process, and Performance. In: Kemper, K. E., W. Blomquist, and A. Dinar (Eds.), *Integrated Riverbasin Management through Decentralization*. Berlin: Springer, 2006.
- [26] Blomquist, W., A. Dinar and K. E. Kemper, Comparative Analysis of Case Studies. In: Kemper, K. E., W. Blomquist, and A. Dinar (Eds.), *Integrated Riverbasin Management through Decentralization*. Berlin: Springer, 2006.
- [27] Blomquist, W., B. Haisman, A. Dinar and A. Bhat, Australia: Murray-Darling Basin. In: Kemper, K. E., W. Blomquist, and A. Dinar (Eds.), *Integrated Riverbasin Management through Decentralization*. Berlin: Springer, 2006.
- [28] R. Maria Saleth, A. Dinar and S. Neubert, Evaluating the Institution-Impact Interactions in the Context of Millennium Development Goals: Analytical Framework with Empirical Results. In: Phoebe Koundouri, (Ed.) *Coping With Water Deficiency: From Research to Policy Making*. Berlin: Springer, 2007.
- [29] Dinar, A., S. Farolfi, F. Patrone and K. Rowntree, To Negotiate or to Game Theorize: Evaluating Water Allocation Mechanisms in the Kat Basin, South Africa. In: Dinar, A., J. Albiac, and J. Sanchez-Soriano (Eds.), *Game Theory and Policy Making in Natural Resources and the Environment*. London: Routledge Publishing, 2008.
- [30] Albiac, J., J. Sanchez-Soriano and A. Dinar, Game Theory: A Useful Approach for Policy Evaluation in Natural Resources and the Environment. In: Dinar, A., J. Albiac, and J. Sanchez-Soriano (Eds.), *Game Theory and Policy Making in Natural Resources and the Environment*. London: Routledge Publishing, 2008.

- [31] Dinar, A. and A. Garrido, High Water, Low Water, No Water: Upland Water Resource Management in Times of Global Change. In: Garrido, A. and A. Dinar (Eds.), *Mountains, Valleys and Flood Plains: Managing Water Resources in a Time of Global Change*. London: Routledge, 2009.
- [32] Garrido, A. and A. Dinar, Overcoming the Constraints for a more Integrated and Adaptive Water Management: A New Agenda for Upland Waters. In: Garrido, A. and A. Dinar (Eds.), *Mountains, Valleys and Flood Plains: Managing Water Resources in a Time of Global Change*. London: Routledge, 2009.
- [33] Dinar, A. and J. Albiac, Policy and Strategy in Water Resource Management: Can we do Better when Both are Coordinated? In *Policy and Strategic Behaviour in Water Resource Management*. London: EarthScan, 2009.
- [34] Albiac, J. and A. Dinar, Introduction. In *The Management of Water Quality and Irrigation Technologies*. London: EarthScan, 2009.
- [35] Dinar, A., Climate Change and International Water: The Role of Strategic Alliances in Resource Allocation. In *Policy and Strategic Behaviour in Water Resource Management*. London: EarthScan, 2009. pp. 301-324.
- [36] Rahman, S. M., A. Dinar and D. Larson, Diffusion of the Clean Development Mechanism. In *Nanotechnology and Microelectronics: Global Diffusion, Economics and Policy*. Ndubuisi Ekeke (Ed.), New York: IGI Publishers (Accepted for publication, July 28, 2009), pp. 193-206, 2010. IGI Global 2010 Excellence in Technology Research 'Book of the Year' Award (<http://us1.campaign-archive.com/?u=b904ea6e3930233a2979c71df&id=19496148bb>).
- [37] Larson, D. F., A. Dinar and J. A. Frisbie, The Present and Future Role for Agricultural Projects under the Clean Development Mechanism. In: *Handbook on Climate Change and Agriculture*. Dinar, A. and R. Mendelsohn (Eds.), Cheltenham: Edward Elgar Publishers, 2011.
- [38] R. Maria-Saleth, A. Dinar and J. A. Frisbie, Climate Change, Drought and Agriculture: Role of Effective Institutions and Infrastructure. In: *Handbook on Climate Change and Agriculture*. Dinar, A. and R. Mendelsohn (Eds.), Cheltenham: Edward Elgar Publishers, 2011.
- [39] Dinar, A. and Y. Tsur, Water Scarcity and Water Institutions, In: *Handbook of Water Economics and Institutions*. Burnett, K, R. Howitt and J. Roumasset, Christopher Wada (Eds.), London: Routledge, 2014.
- [40] Dinar, A., Joint Management of International Water Bodies under Scarcity and Variability, In: *The Handbook of Water Economics*. Dinar, A. and K. Schwabe (Eds.), Cheltenham: Edward Elgar Publishers, 2015.
- [41] Dinar, A. and T. Ash, Water Budget Rate Structure: Experiences from Several Urban Utilities in Southern California, In: Lago, M., J. Mysiak, C. Mario Gómez, G. Delacámara and A. Maziotis (Eds.), *Use of Economic Instruments in Water Policy: Insights from International Experience*, Berlin: Springer, 2015.
- [42] Larson, D. F., A. Dinar, and B. Blankenspoor, Aligning Climate Change Mitigation and Agricultural Policies in Eastern Europe and Central Asia, In: Jiahua Pan and John Whalley (Eds.), *Actions on Climate Change by Asian Countries*. Singapore: World Scientific Publishers, 2015.
- [43] Basist, A., A. Dinar, B. Blankenspoor, and H. Houba, Global Land Surface Wetness and Temperature from Space, using Passive Microwave Emission: The Value of Satellite Information in Crop Yield Prediction and River Discharge Models. In: Zilberman, D., L. Lipper, N. McCarthy, S. Asfaw, G. Branca (Eds.), *Climate Smart Agriculture - Building Resilience to Climate Change*, Elsevier (Forthcoming, 2017).
- [44] Pham Do, K. H. and A. Dinar, The Linkages of Energy, Water, and Land Use in Southeast Asia: Challenges and Opportunities for the Mekong Region. In: Douglas Arent, Channing Arndt, Mackay Miller, Finn Tarp, and Owen Zinaman (Eds.), *The Political Economy of Energy Transitions*, London: Oxford University Press, 2017, pp. 511-529.
- [45] Nigatu, G., and A. Dinar, Distributional Impacts of Welfare Allocations from Damming the Nile River. In: Dinar, A. and Y. Tsur (Eds.), *Management of Transboundary Water Resources Under Scarcity: A Multidisciplinary Approach*. Singapore: World Scientific, 2017, pp. 65-89.

- [46] Pham Do, K. H., and A. Dinar, Issue Linkage: a Mechanism for Managing Conflict, Applied to the Mekong Basin. In: Dinar, A. and Y. Tsur (Eds.), *Management of Transboundary Water Resources Under Scarcity: A Multidisciplinary Approach*. Singapore: World Scientific, 2017, pp. 91-114.

### Policy Publications

- [1] Schwabe, K., K. Baerenklau, and A. Dinar, 2014. Coping with Water Scarcity: The Effectiveness of Allocation-Based Pricing and Conservation Rebate Programs in California's Urban Sector. *Policy Matters* 6(1).
- [2] Baerenklau, K., K. Schwabe, and A. Dinar, 2014. Allocation-Based Water Pricing Promotes Conservation While Keeping User Costs Low. *ARE Update* 17(6):1-4. University of California Giannini Foundation of Agricultural Economics.
- [3] Escalera, J., A. Dinar, and D. Crowley, 2015. Adoption of Water-Related Technology and Management Practices by the California Avocado Industry. *ARE Update* 18(3):5-8. University of California Giannini Foundation of Agricultural Economics.
- [4] Dinar, A. and D. Zilberman, 2016. Water Pricing for a Dry Future: Pricing Policies from Abroad and their Relevance to California. University of California Giannini Foundation of Agricultural Economics. *ARE Update* 19(5):1-4. University of California Giannini Foundation of Agricultural Economics.
- [5] Dinar, A. 2016. Theme Overview: Water Scarcity, Food Production, and Environmental Sustainability—Can Policy Make Sense? Choices. Quarter 3. Available online: <http://www.choicesmagazine.org/choices-magazine/theme-articles/theme-overview-water-scarcity-food-production-and-environmental-sustainabilitycan-policy-make-sense/theme-overview-water-scarcity-food-production-and-environmental-sustainabilitycan-policy-make-sense>
- [6] Dinar, A. 2016. Dealing with Water Scarcity: Need for Economy-Wide Considerations and Institutions. Choices. Quarter 3. Available online: <http://www.choicesmagazine.org/choices-magazine/theme-articles/theme-overview-water-scarcity-food-production-and-environmental-sustainabilitycan-policy-make-sense/dealing-with-water-scarcity-need-for-economy-wide-considerations-and-institutions>
- [7] Dinar, A. 2016. Water Policy Response to Water Scarcity and Future Climate Change Impacts. *Asia Pacific Biotech News*, 20(7), July 2016 - Water Technology and Management. Available online: <http://www.asiabiotech.com/20/2007/20070014x.html>.
- [8] Dinar, S. and A. Dinar. 2017. Lessons From International Water Sharing Agreements for Dealing With Climate Change. Wilson Center NEWSECURITYBEAT, June 19. Available online: <https://www.newsecuritybeat.org/2017/06/lessons-international-water-sharing-agreements-dealing-climate-change/>
- \*[9] Dinar, A., A. Ashraf, and J. Raints, 2017. Farmer Adoption of Water Management Practices in Response to Recurrent Drought." Choices. Quarter 4. Available online: <http://www.choicesmagazine.org/choices-magazine/theme-articles/inducing-water-conservation-in-agriculture-institutional-and-behavioral-drivers/farmer-adoption-of-water-management-practices-in-response-to-recurrent-drought>.
- [10] Dinar, A., D. Parker, H. Huynh, and A. Tieu, 2018. The Evolving Nature of California's Water Economy. Chapter 5 in: P. L. Martin, R. E. Goodhue, and B. D. Wright (Eds), California Agriculture: Dimensions and Issues. Giannini Foundation of Agricultural Economics, <https://giannini.ucop.edu/publications/cal-ag-book/>.
- [11] The Role of Water Policies in Managing Scarce Water Resources. Science Diffusion. <https://doi.org/10.26320/SCIENTIA185>  
[http://www.scientia.global/wp-content/uploads/Ariel\\_Dinar/Dinar\\_Esteban\\_Kahil\\_Albiac.pdf](http://www.scientia.global/wp-content/uploads/Ariel_Dinar/Dinar_Esteban_Kahil_Albiac.pdf)

### Book Reviews

- [1] Dinar, A., Review of the book "Management of Technological Change" by Yassin Saankar [John Weilly & Sons]. *Technological Forecasting and Social Change*, 42(3):322-323, 1992.
- [2] Dinar, A., Review of the book "The Emergence of Technopolies" by Robert E. Preer [Preager]. *Technological Forecasting and Social Change*, 45(3):313-314, 1994.

- [3] Dinar, A., Review of the book "Agricultural Extension: Worldwide Institutional Evolution & Forces for Change" Edited by William M. Rivera and Daniel J. Gustafson [Elsevier]. *Technological Forecasting and Social Change*, 50(1):111-112, 1995.
- [4] Dinar, A., Review of the book "Global Environmental Change and Agriculture" by George Frisvold and Betsy Kuhn Eds., [Edward Elgar]. *American Journal of Agricultural Economics*, May, 2000: 485-486.
- [5] Dinar, A. and S. Dinar, Review of the book "Hydropolitics in the 3<sup>rd</sup> World" by Arun P. Elhance., [United States Institute of Peace Press]. *Woodrow Wilson International Center for Scholars, Environmental Change and Security Project Report*, Issue 6, Summer, 2000, pp 136-139.
- [6] Dinar, A., Review of the book "Institutions, Transaction Costs and Environmental Policy-Institutional Reforms for Water Resources" by Ray Challen, [Edward Elgar Publishing]. *American Journal of Agricultural Economics*, May 2002.
- [7] Dinar, A. Review of the book "Conflict, Cooperation and institutions in International Water Management: An Economic Analysis" by Ines Dombrowsky, [Edward Elgar Publishing]. *Land Economics*, **Invited**, January, 2010.
- [8] Dinar, A. Review of the book "World on the Edge: How to Prevent Environmental and Economic Collapse" by Lester Brown, [Earthscan], *Natural Resources Forum*, 35(4):346-347, **Invited**, November, 2011.
- [9] Dinar, A. Review of the book "Turkey's Water Policy: National Frameworks and International Cooperation" by Kibaroglu, Aysegul, Valtina Scheumann and Anika Kramer (Eds.), [Springer], *Water Alternatives*, 6(1): 144-147, 2013.

**Working Papers** (\* indicates a paper with graduate student, visiting student, or postdoc)

- [1] Lee, D. and A. Dinar, *Review of Integrated Approaches to River Basin Planning, Development, and Management*. Policy Research Working Paper 1446, World Bank, Washington, D.C., April, 1995.
- [2] Tsur, Y. and A. Dinar, *Efficiency and Equity Considerations in Pricing and Allocating Irrigation Water*. Policy Research Working Paper 1460, World Bank, Washington, D.C., May, 1995.
- [3] Kilgour, D. Marc and A. Dinar, *Are Stable Agreements for Sharing International River Waters Now Possible?* Policy Research Working Paper 1474, World Bank, Washington, D.C., June, 1995.
- [4] Dinar, A., P. Seidle, H. Olem, V. Jordan, A. Duda, and R. Johnson, *Restoring and Protecting the World's Lakes and Reservoirs*. World Bank Technical Paper 289, World Bank, Washington, D.C., July, 1995.
- [5] Keck A. and A. Dinar, *Water Variability and Drought in Sub Saharan Africa: Physical and Economic Perspectives for a Comprehensive Water Strategy*. World Bank, Washington, DC, African Water Resources - Challenges and Opportunities for Sustainable Development, Working Paper No. 7, February 1996.
- [6] Cummings R., A. Dinar and D. Olson, *New Evaluation Procedures for a New Generation of Water-Related Projects*. World Bank Technical Paper 349, World Bank, Washington, D.C., December, 1996.
- [7] Ayres, W., A. Busia, A. Dinar, R. Hirji, S. Lintner, A. McCalla, and R. Robelus. *World Bank Approach and Experience with Integrated Lake and Reservoir Management*. World Bank Technical Paper 358, Washington, D.C., 1996.
- [8] Dinar, A., M. W. Rosegrant, and R. Meinzen-Dick, *Water Allocation Mechanisms: Principles and Examples*. World Bank Policy Research Working Paper 1779, Washington, D.C., June, 1997.
- [9] Dinar, A. and A. Subramanian, *Water Pricing Experiences - An International Perspective*. World Bank Technical Paper No. 386, Washington, D.C., 1997.
- [10] R. Maria Saleth and A. Dinar, *Satisfying Urban Thirst, Water Supply Augmentation and Pricing Policy in Hyderabad City, India*. World Bank Technical Paper No. 395, Washington, D.C., 1997.
- [11] Dinar, A., R. Mendelsohn, R. Evenson, J. Parikh, A. Sanghi, K. Kumar, J. McKinse, and S. Longergan, *Measuring the Impact of Climate change on Indian Agriculture*. World Bank Technical Paper No. 402, Washington, D.C., 1998.

- [12] Zilberman, D., A. Dinar, N. MacDougall, M. Khanna, C. Brown, and F. Castillo, *Private and Institutional Adaptation to Water Scarcity During the California Drought, 1987-1992*. ERS Staff Paper Number 9802, USDA, Economic Research Service, Washington, DC, July, 1998.
- [13] Dinar, A. and G. Keynan, *The Cost and Performance of Paid Agricultural Extension Services The Case of Agricultural Technology Transfer in Nicaragua*. World Bank Policy Research Working Paper No. 1931, Washington, D.C., 1998.
- [14] Dinar, A., T. K. Balakrishnan, and J. Wambia, *Political Economy and Political Risks of Institutional Reforms in the Water Sector*. World Bank Policy Research Working Paper No. 1987, Washington, D.C., 1998.
- [15] R. Maria Saleth and A. Dinar, *Water Challenges and Institutional Response (A Cross Country Perspective)*. World Bank Policy Research Paper No. 2045, Washington, D.C., 1999.
- [16] R. Maria Saleth and A. Dinar, *Evaluating Water Institutional and Water Sector Performance*. World Bank Technical Paper No. 447, Washington, D.C., 1999.
- [17] Dinar, A., *Reforming Ourselves Rather than Our Water Resources: Politics of Water Scarcity at Local, National and International Levels*. Reforming Ourselves Rather than Our Water Resources. Working Paper Series, German Development Institute (GDI), Bonn, October 2001.
- [18] Mendelsohn R., A. Dinar, A. Basist, P. Kurukulasuriya, M. Ihsan Ajwad, F. Kogan, and C. Williams, *Cross-Sectional Analyses of Climate Change Impacts*. World Bank Policy Research Working Paper No. 3350, Washington, D.C., 2004.
- [19] Blomquist, W., K.S. Calbick, and A. Dinar *Institutional and Policy Analysis of River Basin Management: The Fraser River Basin, Canada*. World Bank Policy Research Working Paper No. 3525, Washington, D.C., 2005.
- [20] Blomquist, W., B. Haisman, A. Dinar and A. Bhat, *Institutional and Policy Analysis of River Basin Management: The Murray Darling River Basin, Australia*. World Bank Policy Research Working Paper No. 3527, Washington, D.C., 2005.
- [21] Blomquist, W., A. Tonderski, and A. Dinar *Institutional and Policy Analysis of River Basin Management: The Warta River Basin, Poland*. World Bank Policy Research Working Paper No. 3528, Washington, D.C., 2005.
- [22] Roe, T., A. Dinar, Y. Tsur, and X. Diao *Feedback Links between Economy-wide and Farm-level Policies: With Application to Irrigation Water Management in Morocco*. World Bank Policy Research Working Paper No. 3550, Washington, D.C., 2005.
- [23] Blomquist, W., A. Dinar, and K. Kemper *Comparison of Institutional Arrangements for River Basin Management in Eight Basins*. World Bank Policy Research Working Paper No. 3636, Washington, D.C., 2005.
- [24] Dinar, A. K. Kemper, W. Blomquist, M. Diez, G. Sine, W. Fru, *Decentralization of River Basin Management : A Global Analysis*. World Bank Policy Research Working Paper No. 3637, Washington, D.C., 2005.
- [25] R. Maria Saleh and A. Dinar, *Water Institutional Reforms in Developing Countries: Insights, Evidences, and Case Studies*. Initiative for Policy Dialogue at Columbia University, Task Force on Environmental Economics, October 23, 2003.  
<http://www0.gsb.columbia.edu/ipd/programs/item.cfm?prid=17&iyid=13&itid=461>
- [26] Diao, X., A. Dinar , T. Roe , Y. Tsur, *A General Equilibrium Analysis of Conjunctive Ground and Surface Water Use with an Application to Morocco*. World Bank Policy Research Working Paper No. 3637, Washington, D.C., 2006.
- [27] Zara, S., A. Dinar, and F. Patrone, *Cooperative Game Theory and its Application to Natural, Environmental, and Water Resource Issues: Application to Natural and Environmental Resources*. World Bank Policy Research Working Paper No. 4073, Washington, D.C., 2006.
- [28] Parrachino, I., A. Dinar, and F. Patrone. *Cooperative Game Theory and its Application to Natural, Environmental, and Water Resource Issues: Application to Water Resources*. World Bank Policy Research Working Paper No. 4074, Washington, D.C., 2006.
- [29] Dinar, A., S. Farolfi, F. Patrone, K. Rowntree, *Water Allocation Strategies for the Kat Basin in South Africa: Comparing Negotiation Tools and Game Theory Models*. World Bank Policy Research Working Paper No. 4083, Washington, D.C., 2006.

- [30] Asad, M. and A. Dinar, *The Role of Water Policy in Mexico: Sustainability, Equity, and Economic Growth Considerations*. Latin America and Caribbean Region, Sustainable Development Working Paper 27, Washington D.C., World Bank, 2006.
- [31] Dinar, A., S. Abdel-Dayem and J. Agwe (Eds.). *The Role of Technology and Institutions in the Cost Recovery of Irrigation and Drainage Projects*. Agriculture and Rural Development Discussion Paper 33, Washington D.C., World Bank, February 2007.
- [32] Dinar, S. A. Dinar and P. Kurukulasuriya, *SCARPERATION: An Empirical Inquiry into the Role of Scarcity in Fostering Cooperation between International River Riparians*. World Bank Policy Research Working Paper No. 4294, Washington, D.C., 2007.
- [33] Saleth, R. M., A. Dinar, S. Neubert, B. Kamaiah, S. Manoharan, S. Abayawardana, R. Ariyaratne, and S. de Silva. *Institution, Impact Synergies and Food Security*. IWMI Research Report 124, 2007.
- [34] Wang, J., R. Mendelsohn, A. Dinar, J. Huang, S. Rozzelle and L. Zhang, *Can China Continue Feeding Itself? The Impact of Climate Change on Agriculture*. World Bank Policy Research Working Paper No. 4470, Washington DC, 2008.
- [35] Saleth, R. M. and A. Dinar, *Quantifying Institutional Impacts and Development Synergies in Water Resource Programs: A Methodology with Application to the Kala Oya Basin, Sri Lanka*. World Bank Policy Research Working Paper 4498, January 2008.
- [36] Seo, N., R. Mendelsohn, A. Dinar, R. Hassan and P. Kurukulasuriya. *A Ricardian Analysis of the Distribution of Climate Change Impacts on Agriculture Across Agro-Ecological Zones in Africa*. World Bank Policy Research Working Paper 4599, April 2008.
- [37] Seo, N., R. Mendelsohn, A. Dinar, and P. Kurukulasuriya, *Differential Adaptation Strategies by Agro-Ecological Zones in African Livestock Management*. World Bank Policy Research Working Paper 4601, April 2008.
- [38] Seo, N., R. Mendelsohn, A. Dinar, P. Kurukulasuriya, and R. Hassan. *Differential Adaptation Strategies to Climate Change in African Cropland by Agro-Ecological Zones*. World Bank Policy Research Working Paper 4600, April 2008.
- [39] Seo, N., R. Mendelsohn, A. Dinar, P. Kurukulasuriya, and R. Hassan. *Long-Term Differential Adaptation by Selection of Farm Types Across Agro Ecological Zones in Africa*. World Bank Policy Research Working Paper 4602, April 2008.
- [40] Wang, J., R. Mendelsohn, A. Dinar, and J. Huang. *How China's Farmers Adapt to Climate Change?* World Bank Policy Research Working Paper No. 4758, October 2008.
- [41] Larson, D. F., P. Ambrosi, A. Dinar, S. M. Rahman, and R. Entler. *Carbon Markets, Institutions, Policies, and Research*, World Bank Policy Research Working Paper No. 4761 October 2008.
- [42] Dinar, A., S. M Rahman, D. F. Larson, and F. Ambrosi. *Factors Affecting Levels of International Cooperation in Carbon Abatement Projects*. World Bank Policy Research Working Paper No. 4786 November 2008.
- [43] Hanak, E., J. Lund, A. Dinar, B. Gray, R. Howitt J. Mount, P. Moyle, B. Thompson, *California Water Myths*, San Francisco, Public Policy Institute of California, December 2009.
- [44] Rahman, S. M., A. Dinar; D. F. Larson, *Will the Clean Development Mechanism Mobilize Anticipated Levels of Mitigation?* World Bank Policy Research Working Paper No. 5239 March 16 2010.
- [45] Dinar, A., B. Blankespoor, S. Dinar, P. Kurukulasuriya, *The Impact of Water Supply Variability on Treaty Cooperation between International Bilateral River Basin Riparian States*. World Bank Policy Research Working Paper No. 5307 May 11 2010.
- [46] Ambec, S. and A. Dinar, *Hot Stuff: Would Climate Change Alter Transboundary Water Sharing Treaties?* Water Science and Policy Center Working paper 01-0810, August, 2010.
- [47] Madani, K. and A. Dinar, *Non-Cooperative Institutions for Sustainable Management of Common Pool Resources*. Water Science and Policy Center Working paper 01-1210, December, 2010.
- [48] Madani, K. and A. Dinar, *Exogenous Regulatory Institutions for Sustainable Management of Common Pool Resources*. Water Science and Policy Center Working paper 01-0311, March 2011.
- [49] Madani, K. and A. Dinar, *Cooperative Institutions for Sustainable Management of Common Pool Resources*. Water Science and Policy Center Working paper 02-0311, March 2011.

- [50] Larson, D. F., A. Dinar and J. A. Frisbie, *Agriculture and the Clean Development Mechanism*. World Bank Policy Research Working Paper 5261, April 2011.
- [51] Pham Do K. H., A. Dinar, and D. McKinney, *Can Issue Linkage Help Mitigate Externalities and Enhance Cooperation?* Water Science and Policy Center Working Paper 01-0611, June 2011.
- \*[52] Nigatu, G. and A. Dinar, *Modeling Efficiency, Equity and Externality in the Eastern Nile River Basin*, Water Science and Policy Center Working Paper 02-0611, June 2011.
- \*[53] Esteban, E. and A. Dinar, *Collective Action and the Commons: Are Cooperative Groundwater Institutions Stable in the Presence of Environmental Externalities?* Water Science and Policy Center Working Paper 01-0811, August 2011.
- \*[54] Esteban, E. and A. Dinar, *Packaging and Sequencing of Policy Interventions for Sustainable Groundwater Management*, Water Science and Policy Center Working Paper 01-0911, September 2011.
- [55] Dinar, A., D. F. Larson, and J. A. Frisbie, *California and the CDM: How California can take advantage of the Clean Development Mechanism to achieve its AB 32 goals by 2020*, Water Science and Policy Center Working Paper 02-0911, September 2011.
- [56] Blankespoor, B., A. Basist, A. Dinar, S. Dinar, *Assessing economic and political impacts of hydrological variability on treaties: case studies on the Zambezi and Mekong basins*, World Bank Policy Research Working Paper 5996, March 2012.
- [57] Dinar, A., *Economy-Wide Implications of Direct and Indirect Policy Interventions in the Water Sector: Lessons from Recent Work and Future Research Needs*, World Bank Policy Research Working Paper 6068, May 2012.
- [58] Larson, D. F., A. Dinar and B. Blankespoor. *Aligning climate change mitigation and agricultural policies in Eastern Europe and Central Asia*, World Bank Policy Research Working Paper 6080, June 2012.
- [59] Botelho, A., A. Dinar, L. M. Costa Pinto, A. Rapoport, *Time and Uncertainty in Resource Dilemmas: Equilibrium Solutions and Experimental Results*, Water Science and Policy Center Working Paper 01-0912, September 2012.
- [60] Rahman, S. M., D. F. Larson, A. Dinar, *The cost structure of the clean development mechanism*, World Bank Policy Research Working Paper 6262, November 2012.
- [61] Botelho, A., A. Dinar, L. M. Costa Pinto, A. Rapoport, *Linking Appropriation and Provision of Public Goods Decisions Decreases Rate of Destruction of the Commons*, Water Science and Policy Center Working Paper 01-0313, March 2013.
- \*[62] Kahil, M. T., A. Dinar, and J. Albiac, *Propensity for cooperative water management and ecosystem protection under scarcity and drought: Application to the Jucar River Basin, Spain*, Water Science and Policy Center Working Paper 01-0813, August 2013.
- [63] Baerenklau, K., K. Schwabe, and A. Dinar, *Do Increasing Block Rate Water Budgets Reduce Residential Water Demand? A Case Study in Southern California*, Water Science and Policy Center Working Paper 01-0913, September 2013.
- \*[64] Zawahri, N. A., A. Dinar and G. Nigatu, *Explaining the Negotiation Context in International Water Treaties*, Water Science and Policy Center Working Paper 01-1013, October 2013.
- \*[65] Jiang Y., A. Dinar and P. Hellegers, *Economics of Social Trade-off: Abatement Level vs. Ecosystem Damage*, Water Science and Policy Center Working Paper 01-1113, November 2013.
- \*[66] Nasim S., A. Dinar, and S. Helfand, *Allocative Inefficiency and Tenure Arrangements in Irrigated Agriculture in Pakistan*, Water Science and Policy Center Working Paper 02-1113, November 2013  
[http://wspc.ucr.edu/working\\_papers/WSPC\\_WP\\_02\\_1113\\_tenure%20irrigated%20agricluture%20pakistan.pdf](http://wspc.ucr.edu/working_papers/WSPC_WP_02_1113_tenure%20irrigated%20agricluture%20pakistan.pdf).
- \*[67] Pham Do K. H. and A. Dinar, *The Role of Issue Linkage in Managing Non-Cooperating Basins: The Case of the Mekong*, Massey University School of Economics and Finance, Discussion Paper 13.03 November 2013  
<http://www.massey.ac.nz/massey/fms/Colleges/College%20of%20Business/School%20of%20Economics%20&%20Finance/research-outputs/discussion-papers/1303.pdf>.
- [68] Blankespoor, B., Alan Basist, A. Dinar, S. Dinar, H. Houba, and N. Thomas, *Assessing the Economic and Political Impacts of Climate Change on International River Basins Using*

- Surface Wetness in the Zambezi and Mekong Basins*, Tinbergen Institute Discussion Paper 14-005/II, January 2014 ([http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2375157](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2375157)).
- \*[69] Dinar, A., J. Ortiz Correa, S. Farolfi, J. Mutondo, ***Process and Performance of River Basin Water Management Decentralization in Sub-Saharan Africa***, Water Science and Policy Center Working Paper 01-1213, December 2013. ([http://wspc.ucr.edu/working\\_papers/WSPC\\_WP\\_01\\_1213\\_river%20basin%20management%20africa.pdf](http://wspc.ucr.edu/working_papers/WSPC_WP_01_1213_river%20basin%20management%20africa.pdf)).
- \*[70] Kahil, M. T., A. Dinar and J. Albiac, ***Modeling Water Scarcity and Drought Severity for Policy Adaptation to Climate Change: Application to the Jucar Basin, Spain***, University of California Water Science and Policy Center, Working Paper 01-0114, January 2014. ([http://wspc.ucr.edu/working\\_papers/WSPC\\_WP\\_01\\_0114\\_policy%20climate%20change%20jucar%20basin.pdf](http://wspc.ucr.edu/working_papers/WSPC_WP_01_0114_policy%20climate%20change%20jucar%20basin.pdf)).
- \*[71] Ashraf, A., A. Dinar, E. Monteiro, and T. Gaston, ***Science and Economic Aspects of Impact of and Adaptation to Climate Change Induced Water Scarcity in Western US Agriculture***, University of California Water Science and Policy Center, Working Paper 01-0214, January 2014. ([http://wspc.ucr.edu/working\\_papers/WSPC\\_WP\\_01\\_0214\\_climate%20change%20water%20scarcity%20western%20us.pdf](http://wspc.ucr.edu/working_papers/WSPC_WP_01_0214_climate%20change%20water%20scarcity%20western%20us.pdf)).
- [72] Ortiz, J. S., M. R. Filho, and A. Dinar, ***Impact of Access to Water and Sanitation Services on Educational Attainment***, The Hebrew University of Jerusalem, The Center for Agricultural, Economic Research, Discussion paper No. 7.14, July 2014. ([http://departments.agri.huji.ac.il/economics/en/publications/discussion\\_papers/2014/7-14%20081414\\_Impact%20of%20access%20to%20water%20on%20educational%20attainment.pdf](http://departments.agri.huji.ac.il/economics/en/publications/discussion_papers/2014/7-14%20081414_Impact%20of%20access%20to%20water%20on%20educational%20attainment.pdf)).
- \*[73] Jammalamadaka, U. K. and A. Dinar, ***Management of Water Resources in Adversity: The Role of Social Norms***, Discussion Paper 16.1, The Hebrew University of Jerusalem, Department of Environmental Economics and Management, and the Center for Agricultural Economics Research, 2016. ([http://departments.agri.huji.ac.il/economics/en/publications/discussion\\_papers/2016/1.16SocialNormsWaterScarcity.pdf](http://departments.agri.huji.ac.il/economics/en/publications/discussion_papers/2016/1.16SocialNormsWaterScarcity.pdf)).
- [74] Pham Do, K. H., and A. Dinar. ***The Linkages of Energy, Water, and Land Use in Southeast Asia: Challenges and Opportunities for the Mekong Region***, 2016/62 Helsinki: UNU-WIDER, 2016. (<https://www.wider.unu.edu/sites/default/files/wp2016-062.pdf>).
- \*[75] Tellez-Foster, A. Dinar, and A. Rapoport. ***Comparing Alternative Modifications of Energy Subsidies: The Case of Groundwater Extraction***. UCR SPP Working Paper Series, July 2016, WP# 16-02. (<http://spp.ucr.edu/publications/pdf/comparing-alternative-modifications.pdf>).
- \*[76] Tellez-Foster, A. Rapoport, and A. Dinar. ***Groundwater and Electricity Consumption under Alternative Subsidies: Evidence from Laboratory Experiments***. UCR SPP Working Paper Series, July 2016, WP# 16-03. (<http://spp.ucr.edu/publications/groundwater-electricity.pdf>).
- [77] Esteban, E., A. Dinar, J. Albiac, A. Calera, M. García Mollá, L. Avellá. ***The Political Economy of Water Policy Design and Implementation in the Jucar Basin, Spain***. UCR SPP Working Paper Series, August 2016, WP# 16-04. (<http://spp.ucr.edu/publications/political-economy-water-policy.pdf>).
- \*[78] Tellez-Foster, A. Rapoport, and A. Dinar. ***Alternative Policies to Manage Electricity Subsidies for Groundwater Extraction: A Field Study in Mexico***. UCR SPP Working Paper Series, July 2016, WP# 16-05. (<http://spp.ucr.edu/publications/alternative-policies-electricity-groundwater-extraction.pdf>).
- \*[79] Chatterjee, D., A. Dinar and G. González-Rivera, ***A Knowledge Production Function of Agricultural Research and Extension: The Case of the University of California Cooperative Extension***. UCR SPP Working Paper Series, September 2016, WP# 16-06. (<http://spp.ucr.edu/publications/knowledge-agricultural-research.pdf>).



- \*[80] Zeng, Y, H. Houba, A. Dinar and M. Marence, **Damming Trans-boundary Rivers: A Welfare Analysis of Conflict and Cooperation**, Tinbergen Institute Discussion Paper TI 2016-090/II, 2016.  
(<http://papers.tinbergen.nl/16090.pdf>).
- \*[81] Chatterjee, D., A. Dinar and Gloria González-Rivera, **The Contribution of the University of California Cooperative Extension to California's Agricultural Production**, UCR SPP Working Paper Series, November 2016, WP# 16-07.  
(<http://spp.ucr.edu/publications/contribution-cooperation-extension.pdf>).
- \*[82] Suárez-Varela, M. and A. Dinar, **A Double-hurdle Approach for Estimation of Bottled Water Demand under Consumer Environmental Attitudes and Water Conservation Policies**. UCR SPP Working Paper Series, January, 2017 WP# 01-17. (<http://spp.ucr.edu/publications/bottled-water-demand.pdf>).
- \*[83] Reints, J., A. Dinar, and D. Crowley, **Dealing with Water Scarcity: California Avocado Growers Adopting Water Saving Technologies and Management Practices**. UCR SPP Working Paper Series, June, 2017 WP# 02-17. (<https://spp.ucr.edu/publications/dealing-with-water-scarcity.pdf>).
- \*[84] Ert, E., S. Cohen-Amin, and A. Dinar, **The Effect of Issue Linkage on Cooperation in Bilateral Conflicts: An Experimental Study with Relevance to Transboundary Water**. The Center for Agricultural Economic Research, The Hebrew University of Jerusalem, Rehovot, Israel. Discussion Paper 3.17.  
([http://departments.agri.huji.ac.il/economics/en/publications/discussion\\_papers/2017/the%20effect%20of%20issue%203.17.pdf](http://departments.agri.huji.ac.il/economics/en/publications/discussion_papers/2017/the%20effect%20of%20issue%203.17.pdf)).
- \*[85] Reznik, A., A. Dinar, and F. Hernandez-Sancho, **An Economic Examination of Wastewater Recycling Role in Solving the Growing Scarcity of Natural Water Resources**. UCR SPP Working Paper Series, June, 2018 WP# 03-18.  
([http://spp.ucr.edu/publications/economic\\_examination\\_wastewater.pdf](http://spp.ucr.edu/publications/economic_examination_wastewater.pdf)).
- \*[86] Ortiz-Correa, J. S., and A. Dinar, **Civil War's Impact on the Environment and on Access to Water and Sanitation Services**. UCR SPP Working Paper Series, March, 2018 WP# 04-18. ([http://spp.ucr.edu/publications/civil\\_war\\_impact.pdf](http://spp.ucr.edu/publications/civil_war_impact.pdf)).

### Reports

- [1] Yaron, D. and A. Dinar, *Optimal Timing of Irrigation of Cotton on a Daily Basis*. (Hebrew), The Center for Agricultural Economic Research, The Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel, 1977.
- [2] Yaron, D. and A. Dinar, *Irrigation of Cotton with the Aid of Response Functions* (Hebrew), The Center for Agricultural Economic Research, The Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel, 1979.
- [3] Yaron, D., A. Dinar and S. Shamlal, *First Estimates of Prospective Income Losses Due to Increasing Salinity of Irrigation Water in the South and Negev Regions of Israel* #7902 (Hebrew), The Center for Agricultural Economic Research, The Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel, 1979.
- [4] Yaron, D., A. Dinar, S. Meyers and A. Segev, *Optimal allocation of Irrigation Waters on Kibbutz Farm During Peak Season of Cotton Irrigation* (Hebrew), The Center for Agricultural Economic Research, The Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel, 1983.
- [5] Dinar, A. and D. Yaron, *Adoption of New Irrigation Technologies in Citrus: Process Description and the Influence of Input Scarcity and Quality*, TATEC, Patterns of Agricultural Technology exchange and Cooperation in a Similar Ecosystem: The Case of Egypt and Israel. A Trinational Egypt-Israel-U.S.A. Project, May, 1988.
- [6] Dinar, A. and A. Baruchin, *Economic Evaluation of Double Cropping Systems*, TATEC, Patterns of Agricultural Technology exchange and Cooperation in a Similar Ecosystem: The Case of Egypt and Israel. A Trinational Egypt-Israel-U.S.A. Project, May, 1988.
- [7] Basheer, A. M., D. Yaron, Y. Vylar, A. Avizohar, A. Dinar, M. F. Abdel-Rahim, M. Satour, J. Katan and A. Grinstein, *An Economic Analysis of Soil Disinfestation for Controlling Soilborn Diseases*, Egypt Ministry of Agriculture, Department of Foreign Relations, Cairo, and The Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel, 1988.

- [8] Dinar, A. and M. B. Campbell, *Adoption of Improved Irrigation and Drainage Reduction Technologies in the Westside of the San Joaquin Valley. Part I Report: Literature Review, Survey Methods and Descriptive Statistics*. U.S. Bureau of Reclamation Contract 9-PG-20-03380 and 9-PG-20-03010. San Joaquin Valley Drainage Program, Sacramento, CA, August 1990.
- [9] Campbell, B. Mark and A. Dinar, *Adoption of Improved Irrigation and Drainage Reduction Technologies in the Westside of the San Joaquin Valley. Part III Report: A Model of Farm Organization Levels of Complexity and Input Use*. U.S. Bureau of Reclamation Contract 9-PG-20-03380 and 9-PG-20-03010. San Joaquin Valley Drainage Program, Sacramento, CA, August 1990.
- [10] Dinar, A. and D. Zilberman, *The Economics of Irrigation and Drainage (reduction) Technology Choice: The Role of Input Quality and Environmental Conditions*. U.S. Bureau of Reclamation Contract 9-PG-20-03380. San Joaquin Valley Drainage Program, Sacramento, CA., September, 1990.
- [11] Stroh, C. M, A. Dinar and N. W. T. Quinn, *Assessment of Land Retirement as a Strategy for Long-term Management of Agricultural Drainage and Drainage-related Problems in the San Joaquin Valley of California*. Technical Information Record, San Joaquin Valley Drainage Program, Sacramento, CA, July, 1990.
- [12] Loehman, E., and A. Dinar, *Design of Incentives for Cooperative Solutions to Water Problems in the San Joaquin Valley*. U.S. Bureau of Reclamation Contract 0-PG-20-04140 and 9-PG-20-03380. San Joaquin Valley Drainage Program, Sacramento, CA, September, 1990.
- [13] Dinar, A., Hatchett, S. and E. Loehman, *Water Pricing Policies and Institutions for Regional Regulation of Drainage Quality and Quantity*. U.S. Bureau of Reclamation Contract 0-PG-20-04140 and 9-PG-20-03380. San Joaquin Valley Drainage Program, Sacramento, CA, September, 1990.
- [14] Dinar, A. and M. B. Campbell, *Adoption of Improved Irrigation and Drainage Reduction Technologies in the Westside of the San Joaquin Valley. Part II Report: Economic Analysis and Estimates of Behavior of Farm Operators under Various Environmental Conditions*. U.S. Bureau of Reclamation Contract 9-PG-20-03380 and 9-PG-20-03010. San Joaquin Valley Drainage Program, Sacramento, CA, July, 1991.
- [15] Dinar, A. and D. Zilberman, *The Economics of Modern Irrigation Technologies: Lessons from the Israeli Experience*. The World Bank, June 1991.
- [16] Feinerman, E. and A. Dinar, *Economic and Managerial Aspects of Irrigation with Saline Water--The Israeli Experience*. The World Bank, June 1991.
- [17] Dinar, A., *Economic Implications of Increasing Electricity Rates to Agricultural Class Customers*. Report to the California Energy Commission, Sacramento, Ca, March, 1992.
- [18] Dinar, Ariel, Bruce McWilliams, and David Zilberman, *Evaluation of University of California Cooperative Extension Activities in San Joaquin County*. Draft, Department of Agricultural and Resource Economics, University of California, Berkeley, 1992.
- [19] Zilberman, D., A. Dinar, S. Brown, F. Castillo, M. Khanna, N. MacDougall, *How California Responded to the Drought*. Department of Agricultural and Resource Economics, University of California, Berkeley, Preliminary report, 1992.
- [20] Dinar, A. and Richard E. Howitt, *The Economics of Water Quality Cooperatives: Joint Treatment Facilities for Drainage Water*. University of California Center for Cooperatives, Davis, California, January, 1993.
- [21] Dinar, A., *Effects on Cropping Patterns, Income and Technology Change of Conservation Measures via Water Allotments and Price: Illustration from Several California Regions*. Report to the Western Consortium for Public Health, Berkeley, CA, 1993.
- [22] Dinar, A., *Physical-Biological, Economic, and Institutional Aspects of Lake Water Pollution: Literature Review*. Report to the World Bank, Washington DC, August, 1993.
- [23] Xepapadeas, A. and A. Dinar, *Policy Implications of Environmental Regulation: The Case of Doing and Learning in Non-point Source Pollution, Part I: Theory*. Fondazione ENI Enrico Mattei, Nota Dilavoro 25.94, Milan, Italy, August, 1993.
- [24] Dinar, A. and A. Xepapadeas, *Policy Implications of Environmental Regulation: The Case of Doing and Learning in Non-point Source Pollution, Part II: Application*. Fondazione ENI Enrico Mattei, Nota Dilavoro 26.94, Milan, Italy, December, 1993.

- [25] Dinar, A. and A. Wolf, Potential for Regional Water Transfer and Cooperation: the Case of the Western Middle East. Fondazione ENI Enrico Mattei, Nota Dilavoro 33.94, Milan, Italy, July, 1994.
- [26] Dinar, A. (Task Team Leader), Shaping the Future of Water for Agriculture: A Sourcebook for Investment in Agricultural Water Management. Washington DC: World Bank, 2005. [http://siteresources.worldbank.org/INTARD/Resources/Shaping\\_the\\_Future\\_of\\_Water\\_for\\_Agriculture.pdf](http://siteresources.worldbank.org/INTARD/Resources/Shaping_the_Future_of_Water_for_Agriculture.pdf)
- [27] Crowley, D., S. Campisi-Pinto, C. Lovatt, P. Rolshausen, M. L. Arpayaya, and A. Dinar, Decision Support Tools For Management of Avocado Nutrition and Chloride Toxicity. Final Report, October 28, 2016, UC Grant #: 12034311, submitted to the California Avocado Commission.

***Conference, Workshop Presentations, Panels, and Invited Talks and Keynotes***

- [1] Yaron, D. and A. Dinar, Optimal Allocation of Irrigation Water on a Farm During Peak Seasons. Paper presented at the Int'l Conference on Operations Research in Agriculture and Water Resources, Jerusalem, Israel, November, 1979.
- [2] Knapp, K. C. and A. Dinar, Economic Analysis of On-Farm Solutions to Agricultural Drainage Problems. Paper Presented at the 1985 California Plant and Soil Conference, Fresno, California, February 30, 1985.
- [3] Dinar, A., Optimal Yield Considerations in Large Scale Crops Such as Cotton: Trends and Water Use - a Discussion. Paper Presented at the Optimal Yield Management Symposium, Tel-Aviv, Israel, September 5, 1986.
- [4] Knapp, K. C. and A. Dinar, Production with Optimum Irrigation Management Under Saline Conditions. Paper Presented at the 2<sup>nd</sup> International Conference on Production Systems, Paris, France, April 6-10, 1987.
- [5] Knapp, K. C. and A. Dinar, Optimum Irrigation Under Saline Conditions. Paper Presented at the Conference Irrigation for the 21<sup>ST</sup> Century. Portland, Oregon, July 28-30, 1987.
- [6] Dinar, A., D. Shtienberg, M. Azenkot, Y. Pnuel and A. Dinoor, Evaluation of Extension Practices with Expert System for Wheat Disease Control. Paper Presented at the 2<sup>nd</sup> International Conference on Computers in Agricultural Extension Programs. Orlando, Florida, February 10-11, 1988.
- [7] Dinar, A. and D. Marom, Measurement and Evaluation of Computer Use for Extension in Israel. Paper Presented at the 2<sup>nd</sup> International Conference on Computers in Agricultural Extension Programs, Orlando, Florida, February 10-11, 1988.
- [8] Dinar, A. and J. Letey, Economic Analysis of Charges and Subsidies to Reduce Agricultural Drainage Pollution. Paper Presented at the 2<sup>nd</sup> Pan-American Regional Conference on Toxic Substances in Agricultural Water Supply and Drainage - An International Environmental Perspective, Ottawa, Canada, June 8-9, 1989.
- [9] Dinar, A., Application of the Nash Model to a Problem of Efficient Resources Use and Cost-Benefit Allocation. Paper presented at the annual meetings of the American Agricultural Economics Association, Baton Rouge, Louisiana, July 30 - August 2, 1989.
- [10] Dinar, A., S. A. Hatchett and E. T. Loehman, A Model of Regional Drainage Quality and Quantity Control. Paper presented at the Third Interdisciplinary Conference on Natural Resource Modeling & Analysis, Cornell University, Ithaca, New York, October 11-13, 1990.
- [11] Dinar, A., Factors Affecting Adoption of Irrigation Technologies: Economic Framework and Preliminary Findings of a Study from the West Side of the San Joaquin Valley, California. Paper presented at the Annual Meeting of the Western Regional Water Project: Water Conservation and Management in the Western Region, Monterey, California, October 11-13, 1990.
- [12] Dinar, A., Environmental and Institutional Aspects of Irrigation Technology Choice. Paper presented at the Conference on Resource Management and Developing Agriculture in Frontier Regions, Organized by BARD-The United States-Israel Bilateral Agricultural Research and Development Fund, Ben Gurion University of the Negev, Beer Sheva, Israel, December 11-13, 1990.
- [13] Loehman, E. and A. Dinar, Cooperative Solutions to Water Quantity and Water Quality Problems-A Mechanizm Design Approach. Paper presented at the Allied Social Sciences Associations (ASSA), Washington, D.C., December 28-30, 1990.

- [14] Loehman, E. and A. Dinar, Achieving Cooperative Solutions to Externality Problems- A Mechanism Design Approach. Paper presented at the Public Choice Society in conjunction with The Economic Science Association, New Orleans, March 15-17, 1991.
- [15] Dinar, A., Sustainable Agriculture and Innovative Technologies. Paper presented at the XXI International Conference of Agricultural Economists, Tokyo, Japan, August 22-29, 1991.
- [16] Dinar, A., E. Loehman, M. Aillery, M. Moore, and R. Howitt, Regional Modeling and Economic Incentives to Control Drainage Pollution. Paper Presented at the 1991 AERE Workshop "The Management of Nonpoint-Source Pollution", Lexington, Kentucky, June 6-7, 1991.
- [17] Zilberman, D., A. Schmitz, A. Dinar and F. Shah, A Water Scarcity or a Water Management Crisis? Paper presented at the International Conference on Water Management for the Sustainable Environment. Organized by the Canadian Water Resources Association and Waterscapes Inc., University of Saskatchewan, Saskatchewan Canada, June 5-6, 1991.
- [18] Dinar, A., Water Conservation in Israel. Invited paper, California Water Planning--the Critical Link to Population Growth, Agriculture and Industry Needs. Association of Bay Area Governments, San Francisco, September 17-18, 1991.
- [19] Loehman, E. and A. Dinar, Externality Problems and Cooperation in a Water Quality/Quantity perspective. Paper presented at the Common Property Conference of the International Association for the Study of Common Property, University of Manitoba, Winnipeg, Canada, September 26-29, 1991.
- [20] Dinar, A., A. Fisher and D. Zilberman, Impact of Global Climate Change on California's Agriculture. Invited Paper presented at the Peder Sather Symposium on Global Change: European and American Policy Responses, Berkeley, CA, October 16-18, 1991.
- [21] Xepapadeas, A., A. Dinar and W. Boggess, Environmental Regulation: Learning and Doing and Learning in the Case of Nonpoint-Source Water Pollution. Paper presented at the Eleventh Pacific Coast Resource Modeling Conference, Berkeley, CA, June 3-5, 1992.
- [22] Xepapadeas, A., A. Dinar and W. Boggess, Environmental Regulation: Learning and Doing in the Case of Nonpoint-Source Pollution. Paper presented at the Annual Meeting of the European Association of Environmental and Resource Economists, Cracow, Poland, June 6-9, 1992.
- [23] Zilberman, D. and A. Dinar, The Management of Water Resources: The Lesson of the California Drought. Paper Presented at the Eleventh Pacific Coast Resource Modeling Conference, Berkeley, CA, June 3-5, 1992.
- [24] Dinar, A., BINGO Games as Games. Paper presented at the Western Economic Association Annual Conference, San Francisco, CA, July 9-13, 1992.
- [25] Dinar, A., Economic Factors and Opportunities as Determinants of Water Use Efficiency in Agriculture. Invited Paper, The 1st Volcani International Symposium - The Limits of Water Use Efficiency in Agriculture. Bet-Dagan, Israel, October 26-28, 1992.
- [26] Zilberman D., A. Dinar, C. Brown, F. Castillo, M. Khana, and N. MacDougal, Lessons from California's Response to the Drought: On Behavior Under Uncertainty. In Quantifying Long-Run Agricultural Risks and Evaluating Farmer Responses to Risk. Proceedings of a Seminar sponsored by Southern Regional Project S-232, Orlando, Florida, March 22-25, 1992 (Tucson: Department of Agricultural and Resource Economics, University of Arizona, September 1992).
- [27] Zeitouni, N. and A. Dinar, Mitigating Negative Water Quantity and Quality Externalities by Joint Management of Adjacent Aquifers. Paper presented at the European Association of the Environmental and Resource Economists Fourth Annual Conference, Fontainebleau, France, June 30 - July 3, 1993.
- [28] Zeitouni, N. and A. Dinar, Mitigating Negative Water Quantity and Quality Externalities by Joint Management of Adjacent Aquifers. Paper presented at the American Agricultural Economics Association Meeting, Orlando, Florida, August 3 - 5, 1993.
- [29] Dinar A., and A. Wolf, Water Transfer from the Nile to Western Middle East--Engineering, Economics, and Politics. Paper presented at the Workshop "Economic Aspects of International Water Resources Utilization in the Mediterranean Basin", Fondazione ENI Enrico Mattei, Milan, Italy, October 8-9, 1993.
- [30] Hoffman, Elizabeth, Stephen Resenti, Vernon Smith, Ariel Dinar, and Richard Howitt, Designing a Smart, Computer-Assisted Market for Water Allocation in Arid Lands. Paper presented at

- the 63rd annual conference of the Southern Economic Association, New Orleans, LA, November 21-23, 1993.
- [31] Dinar, A., Economic and Policy Implications of Large Scale, Multi-Disciplinary Regional Resource Problems: The Experience of the SJVDP, California. Invited paper, the 34th Seminar of the EAAE "Environmental and Land Use Issues in the Mediterranean Basin: An Economic Perspective." Zaragoza, Spain, February 7-9, 1994.
- [32] Kilgour, Marc and A. Dinar, Are Stable Agreements for Sharing International River Waters Now Possible? Paper presented at the 36th Annual Convention of the International Studies Association, Chicago, Illinois, February 21-25, 1995.
- [33] Le Moigne, Guy, A. Dinar and Sandra Giltner, Principles for the Allocation of Water Among Economic Sectors. Paper presented at the International Seminar on Economic Aspects of Water Management in the Mediterranean Area." Marrakech, Morocco, May 17-19, 1995.
- [34] Dinar, Ariel, International Rivers and Opportunities for Regional Cooperation in Sub-Saharan Africa. Paper Presented at the Sub-Saharan Africa Water Resources Technical Workshop, Nairobi, Kenya February 12-15, 1996.
- [35] Dinar, Ariel, Private and Public Response to Drought in California. Paper Presented at the Sub-Saharan Africa Water Resources Technical Workshop, Nairobi, Kenya February 12-15, 1996.
- [36] Kaufman, Edward, Joe Oppenheimer, Aaron Wolf, and Ariel Dinar, International Fresh Water Disputes and Conflict Resolution-An Integrated Approach. Paper presented at the Conference "Water: A Trigger for Conflict/A reason for Cooperation" Bloomington, Indiana, March 7-10, 1996.
- [37] Dinar, A., Economic and Social Considerations of Regional Cooperation in River Basin Comprehensive Water Resources Development. Keynote paper presented at the 5th Nile 2002 Conference, Addis Ababa, Ethiopia, February 24-28, 1997.
- [38] Dinar, A., Conflict and Cooperation on Water Resources: Discussion. Paper presented at the Fifth International Water and Resource Economics Consortium Conference on Conflict and Cooperation on Trans-Boundary Water Resources, Annapolis, MD, April 14-16, 1997.
- [39] Dinar, A., Drought Crisis Management and Water Rights: An International Perspective. Paper presented at the fourth workshop on Joint Management of Shared Aquifers, Istanbul, Turkey, May 19-22, 1997
- [40] Kilgour, M. D. and A. Dinar, Flexible Water Sharing within an International River Basin. Paper presented at the Ninth World Water Congress, Montreal, Canada, September, 1-6, 1997.
- [41] Dinar, A. and S. Alemu, The Dynamics of Negotiation Processes on International Water Disputes-The Case of the Nile basin. Paper presented at the Ninth World Water Congress, Montreal, Canada, September, 1-6, 1997.
- [42] Dinar, A., Irrigated Agriculture and the Environment - Problems and Issues in Water Policy. OECD Workshop on the Sustainable Management of Water in Agriculture. Athens, Greece, November 3-6, 1997.
- [43] Dinar, A., Can Water Negotiations be Modeled? Investigating Negotiation Processes on International Water Disputes-the Cases of the Nile and the Danube. Paper presented at the Seminar Series "Management of Disputed Int'l Waters with Focus on the Middle East", The Kennedy School Negotiation Program, Harvard University, Harvard, May 13, 1998.
- [44] Dinar, A. Regional Cooperation in Managing Scarce Resources. Paper presented at the Conference "Water and Food Security in the Middle East" Nicosia, Cyprus, April 20-23, 1998.
- [45] Dinar, A., Cross Country Analysis of Climate Change. Paper presented at the Workshop Ricardian Analyses of Climate Change Impacts, Yale University, New Haven, April, 29, 1998.
- [46] Dinar, A., R. Howitt, S. Rassenti, and V. Smith, How Might Future Water Markets Look Like - The Use of Experimental Economics to Design Markets for Water. Paper presented at the World Congress of Environmental and Resource Economists, Venice, Italy, Isola di San Giorgio, June 25-27, 1998.
- [47] Palmieri, A., F. Shah, and A. Dinar, Reservoir sedimentation and the sustainable management of dams. Paper presented at the World Congress of Environmental and Resource Economists, Venice, Italy, Isola di San Giorgio, June 25-27, 1998.
- [48] Saleth, M. and A. Dinar, Preconditions for a Market Solution to Urban Water Scarcity: Empirical Results from Hyderabad City, India. Paper presented at the World Congress of Environmental and Resource Economists, Venice, Italy, Isola di San Giorgio, June 25-27, 1998.

- [49] Dinar, A., Economic Incentives and Water Related Problems Pricing, Markets, Institutions and Politics. Presentation at the Workshop Towards a Colloquium on Water Diplomacy: From Crisis to Opportunity, Columbia University, October 12-13, 1998.
- [50] Dinar, A., Are We Shooting Ourselves in the Foot? Efficiency, Equity, Water Policies, and the Access of the Poor to Water. Paper Presented in the World bank 1999 Rural Week, Westfields, Virginia, March 24-26, 1999.
- [51] Dinar, A. The Political Economy of Water Pricing Policies. Keynote Speech at the European Commission Sponsored Conference, Pricing Water-Economics, Environment and Society. Lisbon, September 6-7, 1999.
- [52] Dinar, A., The Political Economy of Water Pricing Policies SEMINAIRE INTERNATIONAL Sur *RARETE de L'EAU et GESTION DURABLE*, University of Tunis III, Tunis, March 13-14, 2000.
- [53] R. Maria-Saleth and A. Dinar, Institution-Performance Interaction Within Water Sector: Empirical Results with Cross-Country Data. Paper Presented at the European Association of Environmental and Resource Economists (EAERE), Crete, Greece, June 30-July 2, 2000.
- [54] Dinar, A. Political Economy Aspects of Water Pricing Reforms: A Cross Country Perspective Keynote paper presented at the Symposium "Water Resource Management, Efficiency, Equity and Policy, Nicosia, Cyprus, September 22-24, 2000.
- [55] Murphy, J., V. Smith, S. Rassenti, R. Howitt, A. Dinar, "The Design of "Smart" Water Market Institutions Using Laboratory Experiments: Incorporating Water Shortage and Forward Contracts into a Market Mechanism". Paper presented at the 22nd Annual Research Conference of the Association for Public Policy Analysis and Management, Seattle, Washington, November 2-4, 2000.
- [56] Dinar, A. and G. Keynan, "Economics of Paid-Extension: Lessons from Experience in Nicaragua," Paper presented at the ASSA winter meeting, New Orleans, LA, January 5-7, 2001.
- [57] Dinar A. "Use Of Economic Incentives for Policy Intervention in Irrigated Agriculture" Paper presented at the IV Fòrum Arc Mediterrani *Tradició i Innovació en la gestió de l'aigua*, Xarxa d'Universitats Institut Joan Lluís Vives, January 23-24, 2002, Girona and in the Gobierno de Aragon's Seminar *Water Demand Management*, January 25, 2002, Zaragoza, Spain.
- [58] Dinar A. "Regimes of Management of Global and Transboundary Natural and Environmental Resources", Paper Presented at the 2nd World Congress of Environmental and Resource Economists, Monterey, CA June 24-27, 2002.
- [59] Basist, A., C. Williams, R. Mendelsohn, P. Kurukulasuriya, A. Dinar, and R. Reddy "Using Satellite to Monitor Surface Wetness", Paper presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA December 4-11, 2002.
- [60] Sur, M., D. Umali-Deininger, and A. Dinar, Water-related Subsidies in Agriculture: Environmental and Equity Consequences". Paper presented at the OECD Workshop on Environmentally Harmful Subsidies, Paris, November 7-8, 2002. <http://www.oecd.org/site/agrehs/35218016.pdf>.
- [61] Basist, A., C. Williams, F. Kogan, R. Mendelsohn, P. Kurukulasuriya, A. Dinar, and R. Reddy, "Climate and Rural Poverty", Paper presented at the 83rd American Meteorological Society Annual Meeting, Long Beach, California, February 9-13, 2003.
- [62] A. Dinar, S. Moretti, F. Patrone and S. Zara: "Application of Stochastic Cooperative Games in Water Resources", XV Italian Meeting on Game Theory and Application (IMGTA), Urbino, Italy, July 12-16, 2003. <http://www.econ.uniurb.it/imgta/program.asp>
- [63] Maria Saleth, R. and A. Dinar "Water Institutions and Sector Performance", Paper presented at the learning workshop on Water Reforms, Institutions' Performance, Allocation, Pricing, and Resource Accounting, 25th International Conference of Agricultural Economists, Durban, South Africa, August 16, 2003. <http://www.iaae2003durban.co.za/>
- [64] Dinar. A, and R. Maria Saleth "Water Institutions Health Index", Paper presented at the learning workshop on Water Reforms, Institutions' Performance, Allocation, Pricing, and Resource Accounting, 25th International Conference of Agricultural Economists, Durban, South Africa, August 16, 2003. <http://www.iaae2003durban.co.za/>

- [65] Williams, L., R. Mendelsohn, and A. Dinar “Impacts of Climate Change on Poor Countries”, Paper presented at the winter meeting of the Allied Social Science Association, San Diego, California, January 3-5, 2004.
- [66] Mendelsohn, R., A. Basist, P. Kurukulasuriya, and A. Dinar, “Climate Change and Rural Income”, Paper presented at the winter meeting of the Allied Social Science Association, San Diego, California, January 3-5, 2004.
- [67] Roe, T., A. Dinar, Y. Tsur, X. Diao, E. Cakmak, R. Hassan and R. Doukkali, Feedback links Between economy-wide and farm-level policies: Application to irrigation water management, Paper presented at the World Bank Economists’ Forum, Washington DC, May 3-4, 2004.
- [68] Dinar, A., Role for game theory in contemporary conflicts and cooperation over natural resources, Keynote paper presented at the VI Spanish Meeting on Game Theory and Practice, Alche, Spain, July 12-14, 2004.
- [69] Dinar, A. Cooperation in managing transboundary water resources: evaluation approaches and experiences, Keynote paper presented at the 4<sup>th</sup> Rosenberg International Forum on Water Policy, Ankara, Turkey, September 3-9, 2004.
- [70] Dinar, S. and A. Dinar, “SCARPERATION: The Role of Scarcity in Cooperation among Basin Riparians”, Paper presented at the 2005 International Study Association Convention, Honolulu, Hawaii March 1-5, 2005.
- [71] Dinar A. Can Water Institutions be Cured? A Water Institutions Health Index, Keynote paper presented at the International Conference on Water Economics, Statistics, and Finance, Rethimno, Crete, Greece, July 8-10, 2005.
- [72] Dinar, A., S. Farolfi and F. Patrone and K. Rowntree, To Negotiate or to Game Theorize: Negotiations vs. Game Theory Outcomes for Water Allocation Problems in the Kat Basin South Africa. Paper presented at the 6th Mtg on Game Theory & Practice in Development, Natural Resources and Environment, Zaragoza Spain July 10-12, 2006.
- [73] Dinar, A. K. Kemper, W. Blomquist, and P. Kurukulasuriya, The Process and Performance of Decentralization of River Basin Resource Management: A Global Analysis. Paper presented at the AERE Session (“Water Resources”) of the 2006 AAEA Meetings, Long Beach, CA July 21-26, 2006.
- [74] Dinar, A. To Dilute or to Concentrate—Institutional and Policy Analysis of River Basin Management Decentralization (A Global Analysis). Invited presentation, Water Seminar Series, Nicholas School of the Environment and Earth Sciences at Duke University, North Carolina, November 10, 2006.
- [75] Dinar, S. A. Dinar and P. Kurukulasuriya, SCARPERATION: An Empirical Inquiry into the Role of Scarcity in Fostering Cooperation Between International River Riparians. Paper presented at the AERE Session (“Environmental Conflict and Cooperation”) of the 2007 ASSA Winter Meetings, Chicago, IL January 5-7, 2007.
- [76] Dinar, A., R. Hassan, R. Mendelsohn, J. Benhin and A. Delos Angeles, The Policy Nexus of Agriculture and Global Climate Change in Africa. Invited paper presented at the International Science-policy Forum on Climate Change Adaptation in Africa, Nairobi, Kenya, November 1-3, 2006.
- [77] Dinar Ariel, Resultados del Estudio sobre Cambio Climático y Desarrollo Rural en América del Sur, XI Reunión Concejo Agrícola, del Sur (CAS) Montevideo, Uruguay, November 17, 2006.
- [78] Dinar A., Impact of and Adaptation to climate change in African and South American agriculture: A Ricardian analysis. Fund-Bank Environment Seminar, Washington DC, November 28, 2006.
- [79] Maria Saleth, R., A. Dinar and S. Neubert, Evaluating the Institution-impact Interactions in the Context of Millennium Development Goals: Analytical Framework with Empirical Results. Invited Paper presented at the International Scientific Meeting 'Water Management, technology, economics and the environment', Fundación Ramón Areces, Madrid January 19-20, 2007.
- [80] Dinar, A., Análisis Económico sobre el Impacto del Cambio Climático y la Adaptación de la Agricultura en el Banco Mundial 1995-2007. Paper presented at the international workshop Difusión de Resultados Proyecto Cambio Climático y Desarrollo Rural, Montevideo, Uruguay, August 28-29, 2007.

- [81] Dinar, A., Strategic behavior in international water allocation. Paper presented at the World Water Expo session “Think Water Think Strategically”, conference on Water: Economics, Policy, Politics and Agricultural Celebration. Zaragoza, Spain May 12-15, 2008.
- [82] Dinar, A., Climate Change and International Water: The Role of Strategic Alliance in Resource Allocation. Keynote Paper presented at the 2008 UCOWR/NIWR Conference with the dual themes of “International Water Resources: Challenges for the 21st Century” and “Water Resources Education” July 22-24, 2008 in Durham, North Carolina.
- [83] Dinar, A., D. McKinney, S. Dinar, and Lynette de Silva, Innovation in Teaching Transboundary Water Courses - An Interdisciplinary Approach. Panel presentation at the 2008 UCOWR/NIWR Conference with the dual themes of “International Water Resources: Challenges for the 21st Century” and “Water Resources Education” July 22-24, 2008 in Durham, North Carolina.
- [84] Dinar, A., S. R. Mahfuz, D. Larson and P. Ambrosi, Factors Affecting Levels of International Cooperation in Carbon Abatement Projects. Paper presented at the ISA's 50th Annual Convention New York City, NY, February 15-18, 2009.
- [85] Ambec, S. and A. Dinar, Hot Stuff: Would Climate Change Alter Transboundary Water Sharing Agreements? Paper presented at the ISA's 50th Annual Convention, New York City, NY, February 15-18, 2009.
- [86] Dinar, A., Fair sharing of water and distributional impact of climate change. Invited Paper presented at the 7th Toulouse Conference on Environmental and Resource Economics “Equity in environmental and resource economics”, Toulouse, France, June 18-19 2009.
- [87] Rahman, S. M., A. Dinar and D. Larson, Global and Cross Country Adoption of the Clean Development Mechanism: Incidence, extent and Growth, Paper presented at the 17th Annual Conference of the European Association of Environmental and Resource Economists, Amsterdam, The Netherlands 24 - 27 June 2009.
- [88] Ambec, S., and A. Dinar, Hot Stuff: Would Climate Change Alter Transboundary Water Sharing Agreements? Paper presented at the 17th Annual Conference of the European Association of Environmental and Resource Economists, Amsterdam, The Netherlands 24 - 27 June 2009.
- [89] Rahman, S. M., D. Larson and A. Dinar, The Costs of Emissions Abatement through the Clean Development Mechanism. Paper presented at the AAEA & ACCI Joint Annual Meeting, Milwaukee, Wisconsin, July 26-28, 2009.
- [90] Dinar, A., Climate Change and Water Resource Management: Tradeoffs and Opportunities in the field of International Water. Invited Keynote Paper presented at the 2nd International Conference on Water Economics, Statistics, and Finance, International Water Association, Alexandroupolis – Thrace, Greece, 3-5 July, 2009.
- [91] Wang, J., R. Mendelsohn, A. Dinar, and J. Huang, How China's Farmers Adapt to Climate Change. Paper presented at the XXVII Conference of the International Association of Agricultural Economists, Beijing, China, August 16-22, 2009.
- [92] Dinar, A., Game Theory and Water Resources: Critical Review of its Contributions, Progress and Remaining Challenges. Invited Keynote Paper presented at the Third Workshop on Game Theory in Energy, Resources and Environment, HEC Montréal, December 10-11, 2009.
- [93] Dinar, A., The Diffusion of the Clean Development Mechanism over Time and Across Countries. Invited Paper presented at the Conference on Governance of Green Energy and Carbon Reduction. Chung-Hua Institution for Economic Research, Taipei, Taiwan, January 20-22, 2010.
- [94] Dinar, A., Equity Consideration and Environmental Policies. Invited Panel Presentation: Combining Environmental and Development Goals: Strategies for Moving Forward, at the AERE/ASSA 2010 Allied Social Sciences Associations Annual Meeting, Atlanta, GA, January 5-7, 2010.
- [96] Dinar, A., B. Blankespoor, S. Dinar and P. Kulukurasuriya, The Impact of Water Supply Variability on Treaty Cooperation among International Bilateral River Basin Riparians. Paper presented at the ISA special workshop “Water and Security”, the 51<sup>st</sup> ISA Annual Convention 2010, New Orleans, LA, February 16, 2010.
- [97] Zawahri, N., A. Dinar, G. Nigatu, Governing International Freshwater Resources: An Analysis of Treaty Design. Paper presented at the 51<sup>st</sup> ISA Annual Convention, New Orleans, LA, February 17-19, 2010.



- [97] Dinar, A., The Impact of Water Supply Variability on Treaty Cooperation among International Bilateral River Basin Riparians. **Invited Seminar** paper presented at a joint seminar of the Dept of economics and Political Science, University of California, San Diego, February 22, 2010.
- [98] Dinar, A., The Impact of Flow Variability on the Likelihood of Cooperation Among International Bilateral River Basin Riparians, **Invited Seminar**, University of Nebraska-Lincoln Water Center School of Natural Resources, March 3, 2010.
- [99] Dinar, A., The Impact of Water Supply Variability on Treaty Cooperation among International Bilateral River Basin Riparians. Paper presented at a seminar at the University of Pretoria, South Africa, April 14, 2010.
- [100] Dinar, A. Macro-Micro Linkages in Managing Water, Land, Environment, and Economic Development. Invited presentation, Santa Ana Watershed Project Authority, Commission Workshop. Santa Ana Watershed Project Authority headquarters, Riverside, CA June 1, 2010.
- [101] Fang, L. and A. Dinar, Efficiency and Equity Considerations in China's Rural Water Management. Paper presented at the 4<sup>th</sup> World Congress of Environmental and Resource Economists, Université du Québec à Montréal, June 28-July 2, 2010.
- [102] Dinar, A., Would Climate Change Really Affect the Cooperation and Stability of International Water Treaties? **Invited** Presentation at the 2010-11 UF Water Institute Distinguished Scholar Seminar Series, University of Florida, Gainesville, February 3, 2011.
- [103] Dinar, A., The Era of Limits: Is there a water policy to save us from thirst? **Invited Presentation**, UCR Palm Desert's Imagining the Future Lecture Series, UCR-Palm Desert, April 6, 2011.
- [104] Dinar, A. The Water Science and Policy Center. Western Municipal Water District Board Meeting, May 4, 2011.
- [105] Madani, K. and A. Dinar, Various Institutions for Sustainable Management of Common Pool Resources: The Case of Groundwater. Paper presented at the 9th Symposium on Groundwater Hydrology, Quality and Management, 2011 World Environmental & Water Resources Congress, Palm Springs CA, (Proceedings of the World Environmental and Water Resources Congress 2011, ASCE, Bearing Knowledge for Sustainability, pp. 981-989) May 22-26, 2011.
- [106] Esteban E. and A. Dinar, Collective Actions and the Commons: Are Cooperative Groundwater Institutions Stable in the Presence of Environmental Externalities? Paper presented at the inaugural AERE Summer Conference, Seattle, June 8-10, 2011.
- [107] Nigatu, G. and A. Dinar, The Welfare Value of Allocate-and-Trade: Addressing Efficiency, Equity and Externality in the Eastern Nile River Basin. Paper presented at the 2011 UCOWR/NIWR Conference, Boulder, Colorado July 11-14, 2011.
- [108] Esteban E. and A. Dinar, Packaging and Sequencing Policy Interventions for Sustainable Groundwater Management. Paper presented at the 2011 UCOWR/NIWR Conference, Boulder, Colorado July 11-14, 2011.
- [109] Dinar, A., The Flexibility Mechanisms in the Kyoto Protocol - The CDM and how relevant would it be for California? Invited seminar presentation, University of California Center Sacramento, November 3, 2011.
- [110] Dinar, A., Social Preferences and Tradeoffs: Role of Policy in Environmental Regulation and Natural Resource Extraction and Conservation. Invited paper presented at a seminar at the IBM Research Center, Haifa, Israel January, 2012.
- [111] Nigatu G. and A. Dinar, Distributional Consideration in International Common Pool Resources under Externality and Climate Change Situations: The Case of the Blue Nile. Paper presented at the 53<sup>rd</sup> ISA Annual Convention San Diego, April 1-4, 2012.
- [112] Blankespoor, B., A. Basist, A. Dinar, and S. Dinar, Use of Satellite Data to Calculate Hydrological Variability and Probability of Extreme Flow Impacts on Treaty Stability: Analytical Framework and Illustration to the Zambezi and Mekong Basins. Paper presented at the 53<sup>rd</sup> ISA Annual Convention San Diego, April 1-4, 2012.
- [113] Rahman, S. M., D. F. Larson, and A. Dinar, The Cost of Mitigation Under the Clean Development Mechanism: An Implicit Cost Function Evaluation, AERE Summer 2012 Conference, Asheville NC, June 4-5, 2012.
- [114] Esteban, E. and A. Dinar, Groundwater-dependent Ecosystems: How Does the Type of Ecosystem Affect the Optimal Management Strategy? Paper presented at the 19th Annual Confer-

- ence of the European Association of Environmental and Resource Economists, Prague, Czech Republic, June 27-30, 2012.
- [115] Pham Do, K. H, A. Dinar, and Daene McKinney, Can Issue Linkage Help Mitigate Externalities and Enhance Cooperation? Paper presented at the 19<sup>th</sup> Annual Conference of the European Association of Environmental and Resource Economists, Prague, Czech Republic, June 27-30, 2012.
- [116] Rahman, S. M., A. Dinar and D. F. Larson, Cross-Country Adoption of the Clean Development Mechanism, Paper presented at the 19<sup>th</sup> Annual Conference of the European Association of Environmental and Resource Economists, Prague, Czech Republic, June 27-30, 2012.
- [117] Pham Do, K. H, A. Dinar, Can Issue Linkage Help Mitigate Externalities and Enhance Cooperation? Paper presented at the 4<sup>th</sup> World Congress of the Game Theory Society, Istanbul, Turkey July 22-26, 2012.
- [118] Dinar, A. The Water Situation in California and the Citrus Industry: Do we respond adequately? Presentation at the California Citrus Conference, Porterville, CA, October 11, 2012.
- [119] Botelho, A., A. Dinar, L. Costa-Pinto, and A. Rapoport, Time and Uncertainty in Resource Dilemmas: Equilibrium Solutions and Experimental Results. Paper presented at the Society for the Advancement of Behavioral Economics (SABE) section of the Allied Social Science Association Winter Meeting, San Diego, CA, January 5-8, 2013.
- [120] Ortiz Correa J. S. and A. Dinar, Effects of Civil War on Access to Water and Sanitation Services. Paper presented at the Association of Environmental and Resource Economists (AERE) section of the Allied Social Science Association Winter Meeting, San Diego, CA, January 5-8, 2013.
- [121] Dinar, A., The Intersection of Climate Change, Water, and Transboundary Issues. **Invited** Paper presented at the UC Institute on Global Conflict and Cooperation, University of California, San Diego, April 3-5, 2013.
- [122] Dinar, A., Economic Incentives and Institutional Arrangements in Addressing Increased Water Scarcity and Quality Problems: Theory and Case Studies. **Invited Keynote** Paper Presented at the 3<sup>rd</sup> International Water Association conference on Water Economics, Statistics and Finance, Marbella, Spain, April 24-26, 2013.
- [123] Dinar, A., Will Water Become a More Limiting Resource for Food Production? Discussion presented at the Agricultural and Applied Economics Association, Washington DC, August 4-7, 2013.
- [124] Dinar, A. Cooperative Arrangements for Water Sharing and Ecosystem Protection under Scarcity and Drought with Application to the Jucar Basin (paper by Kahil, Dinar, Albiac), Paper presented at a seminar in the Department of Ag. Economics, University of Arizona, Tucson, AZ, May 1, 2014.
- [125] Dinar, A., (paper by Kahil, Dinar, Albiac), Modeling Water Scarcity and Droughts to Analyze Climate Change Adaptation Policies in The Jucar Basin, Spain, Paper presented at a seminar in the Department of Ag. Economics, University of Arizona, Tucson, AZ, May 2, 2014.
- [126] Dinar, A., Panel member: Is California Able and Ready to Tackle its Water Challenges? Giannini Foundation organized Conference , Climate Change: Challenges to California's Agriculture and Natural Resources, Sacramento, CA, May 19, 2014.
- [127] Baerenklau, K., K. Schwabe, A. Dinar, Residential Water Demand Effect of Increasing Block Rate Water Budgets, Paper presented at the AERE session in the AAEA Annual Meeting, Minneapolis, MN, July 27-29, 2014.
- \*[128] Crowley, D., J. Escalera, A. Dinar, and M. L. Arpaia, Applications of Neural Network Models as Decision Support Tools for Salinity Management of Avocado, Paper presented at the 3<sup>rd</sup> International Salinity Forum, Riverside, CA, June 16-18, 2014.
- \*[129] Escalera, J., A. Dinar and D. Crowley, Adoption of Technologies and Management Practices by California Avocado Growers in Response to Water Scarcity and Quality Problems, Paper presented at the 3<sup>rd</sup> International Salinity Forum, Riverside, CA, June 16-18, 2014.
- [130] Dinar, A. (paper by Kahil, Dinar, Albiac), Assessing Cooperative Arrangements for Water Sharing and Ecosystem Protection under Scarcity and Drought: The Case of the Jucar River Basin, Spain. Seminar presentation, Grantham Research Institute on Climate Change and the Environment and the Department of Geography and Environment, London School of Economics, UK, June 25, 2014.

- \*[131] Kahil, T. M., A. Dinar and J. Albiac, Cooperative Arrangements for Water Sharing and Ecosystem Protection under Scarcity and Drought with Application to the Jucar Basin, Spain, Paper presented at the 5<sup>th</sup> World Congress of Environmental and Resource Economists, Istanbul, June 28-July 2, 2014.
- \*[132] Kahil, T. M., A. Dinar and J. Albiac, Modeling Water Scarcity and Droughts to Analyze Climate Change Adaptation Policies in The Jucar Basin, Spain, Paper presented at the 5th World Congress of Environmental and Resource Economists, Istanbul, June 28-July 2, 2014.
- \*[133] Kahil, T. M., A. Dinar and J. Albiac, Cooperative Arrangements for Sustainable Water Management Under Scarcity and Drought in the Jucar Basin, Spain, Paper presented at the VI Congress of the Spanish-Portuguese Association of Resource and Environmental Economics (AERNA), Girona, Spain, September 4-6, 2014.
- [134] Dinar, A., J. Ortiz, S. Farolfi, and J. Mutondo, Quantifying the Process and Performance of River Basin Water Management Decentralization in Sub-Saharan Africa, Paper presented at the 11<sup>th</sup> meeting of the International Water Resource Economics Consortium, Washington DC, September 7-9, 2014.
- \*[135] Kahil, T. M., A. Dinar, J. Albiac, Efficient water management policies for climate change adaptation in the Jucar Basin, Spain, Paper presented at the 11th meeting of the International Water Resource Economics Consortium, Washington DC, September 7-9, 2014.
- [136] Baerenklau, K., K. Schwabe, and A. Dinar, Residential Water Demand Effect of Increasing Block Rate Water Budgets, Paper presented at the 11<sup>th</sup> meeting of the International Water Resource Economics Consortium, Washington DC, September 7-9, 2014.
- \*[137] Esteban, E. and A. Dinar, Groundwater-dependent ecosystems: How does the type of ecosystem affect the optimal management strategy? Paper presented at the VI annual meeting of the Spanish-Portuguese Association of Environmental and Resource Economists (ARENA), Girona, Spain, September 6-7, 2014.
- [138] Dinar, A. (papers by Kahil, Dinar, Albiac), What Can the Rain (or lack of it) in Spain Teach Us about Adaptation to Climate Change under Water Scarcity and Severe Drought? UC Center Sacramento, California, October 9, 2014.
- \*[139] Crowley, D. E., S. Campisi, M. L. Arpaia, and A. Dinar, Managing Avocado Fertilization and Irrigation Practices for Improved Yields and Fruit Quality. The California Avocado Society Annual Meeting, Temecula, California, October 10, 2014.
- [140] Dinar, A., Drought in California: What did California Learn and Can Teach from its Own Experience. Paper presented at the International Workshop, Botín Foundation/Rosenberg International Forum on Managing Drought and Scarcity in Semi-arid Lands: the Cases of California and Spain. January 29, 2015, Botín Foundation, Madrid.
- [141] Dinar, A., Food security and Environmental Sustainability: Opportunities and Risks of Irrigation with Non-conventional Waters to Address Climate Change Induced Water Scarcity in Southern California. Paper presented at the International Workshop on Securing Food Using Non-Conventional Water Sources, February 24, 2015, University of Haifa, Israel.
- [142] Pham Do, K. H. and A. Dinar, Issue Linkage as a Mechanism for Conflict Management in the Mekong Basin. Paper presented at the Conference “Management of Transboundary Water Resources Under Scarcity”, The Hebrew University of Jerusalem, Rehovot, Israel, June 22-13, 2015.
- [143] Nigatu G. and A. Dinar, Can Damming the Blue Nile be Good for Food Production? Paper presented at the Conference “Management of Transboundary Water Resources Under Scarcity”, The Hebrew University of Jerusalem, Rehovot, Israel, June 22-13, 2015.
- \*[144] Zeng, Y., H. Houba, A. Dinar, and M. Marence. Damming Trans-boundary Rivers: A Welfare Analysis. Paper presented at the Conference “Management of Transboundary Water Resources Under Scarcity”, The Hebrew University of Jerusalem, Rehovot, Israel, June 22-13, 2015.
- [145] Dinar, A. Dealing with Prolonged Drought and Water Scarcity: Water Policy Reforms that Took Israel from a Water-scarce to Water-abundant Nation. Randall Lewis Outreach Seminar Series, The Center for Sustainable Suburban Development, UC Riverside, November 4, 2015.
- \*[146] Regnacq, C., A. Dinar, and E. Hanak, The Gravity of Water: Water Trade Frictions in California. Paper presented at the Agricultural & Applied Economics Association Invited Paper Session at the Allied Social Science Associations meeting, San Francisco, January 3-5, 2016.

- [147] Dinar, A., Prolonged Water Scarcity and Drought: Water Policy Reforms that Took Israel from a Water Scarce to Water Abundant Nation. Water UCI Colloquium Series, UC Irvine, January 20, 2016.
- [148] Dinar, A., L. De Stefano, G. Nigatu, and N. Zawahri, Why There Are So Few Basin-wide Treaties? Impact of Economies of Scale and Transaction Costs on Coalition Formation in the Case of International Water. Paper presented at the 57<sup>th</sup> ISA Annual Convention, Atlanta, Georgia, March 16-19, 2016.
- \*[149] Chatterjee, D., A. Dinar, and Gloria Gonzalez-Rivera, Impact of UC Cooperative Extension on California's Agricultural Productivity. Paper presented at the 91<sup>st</sup> Annual Conference of the Western Economic Association International, Portland, Oregon, June 29 - July 03, 2016.
- \*[150] Regnacq, C., A. Dinar, and Ellen Hanak, The Gravity of Water: Water Trade Friction in California. Paper presented at the Association of Environmental and Resource Economics Session at the 91<sup>st</sup> Annual Conference of the Western Economic Association International, Portland, Oregon, Jun 29 - Jul 03, 2016.
- \*[151] Jammalamadaka, U. K., and A. Dinar, Management of Water Resources in Adversity: The Role of Social Norms. Paper presented at the contributed or thematic session of the 22nd Annual Conference of the European Association of Environmental and Resource Economists in Zurich, Switzerland, June 22 - 25, 2016.
- \*[152] Tellez-Foster E., A. Rapoport, and A. Dinar, Groundwater and Electricity Consumption under Different Energy Subsidies Conditions: Evidence from Laboratory Experiments. Paper presented at the 12th Annual IWREC Meeting, World Bank Headquarters, Washington, DC, September 11-13, 2016.
- \*[153] Tellez-Foster E., A. Dinar, and A. Rapoport, Comparing Alternative Modifications of Energy Subsidies: The Case of Groundwater Extraction, Paper presented at the 12th Annual IWREC Meeting, World Bank Headquarters, Washington, DC, September 11-13, 2016.
- \*[154] Tellez-Foster E., A. Rapoport, and A. Dinar. Groundwater and Electricity Consumption under Alternative Subsidies: Evidence from the Laboratory. Paper presented at the ESA International Meeting, Jerusalem, Israel, July 7-11, 2016.
- [155] Dinar, A., Softening our Water Policy: *Water Scarcity and Behavior-change-based Policy*, Seminar Briefing on The Economics of Drought: Realities and Policy Choices, U.S. House of Representatives, 1300 Longworth House Office Building, Washington DC, July 11, 2016.
- [156] Dinar, A., Softening our Water Policy: *Water Scarcity and Behavior-change-based Policy*, Seminar Briefing on The Economics of Drought: Realities and Policy Choices, U.S. Senate 328A Russell Senate Office Building, Washington DC, July 11, 2016.
- \*[157] Regnacq, C., A. Dinar (presenter), and Ellen Hanak, The Gravity of Water: Water Trade Frictions in California, Paper presented at the USDA Economists Group and Council on Food, Agricultural and Resource Economics Sponsored Webinar: The Economics of Managing Drought: Policy Evaluation and Water Markets, 108A Jamie L. Whitten Building, Washington, DC, Tuesday, July 12, 2016.
- [158] Dinar, A., The Tale of Three Rivers: Jucar, Blue Nile and Mekong. Invited Seminar, Fulbright Economics Teaching Program and Lower Mekong Public Policy Initiative, Ho Chi Minh City, Vietnam, December 13, 2016.
- [159] Dinar, A. Dealing with Long-Term Water Scarcity: Policy Lessons from On-going and Recent Research. Paper Presented at the USDA-AAEA Workshop (Water Resources and Policy: Exploring the Risk, Benefits and Opportunities for Conservation) for Congressional and Agency Staff. ERS & US Capitol Visitor Center, Washington, DC, March 20, 2017.
- \*[160] Ashraf, A, J. Stemke, T. Khan, and A. Dinar, The Impact of Spatial Variability of Climate and Soil on Farm Productivity in Riverside County, Poster presented at the Southern California Association of Governments 2017 Regional Conference & General Assembly, Palm Desert, California, May 4-5, 2017.
- [161] Dinar, A., Dealing with Water Scarcity: Does Level of Water Scarcity Affect Policy Intervention Patterns? Paper presented at the UC Riverside WaterSENSE NSF IGERT Conference, Turbulent Futures, Riverside, CA, May 11-12, 2017.
- \*[162] Nasim, S., S. Helfand and A. Dinar, Groundwater Management under Alternative Tenure Arrangements. Paper presented at the AERE Annual Summer Conference, Pittsburgh, Pennsylvania, May 31 – June 2, 2017.

- \*[163] Reints, J., A. Dinar and D. Crowley, Dealing with Water Scarcity: Adoption of Water Saving Technologies and Management Practices by California Avocado Growers. Paper presented at the Northeast Agricultural and Resource Economics Association (NAREEA) 2017 Annual Meeting, Washington, D.C. June 11-14, 2017.
- \*[164] Tellez-Foster, E., A. Rapoport, and A. Dinar, Alternative Policies to Manage Electricity Subsidies for Groundwater Extraction: a Field Study in Mexico. Paper presented at the 23<sup>rd</sup> annual conference of the European Association of Environmental and Resource Economists, Athens, Greece, June 28-July 1, 2017.
- [165] Ert, E., S. Cohen-Amin, and A. Dinar (presenter), The Effect of Issue Linkage on Cooperation in Bilateral Conflicts: An Experimental Study with Relevance to Transboundary Water. Paper presented at the 23<sup>rd</sup> annual conference of the European Association of Environmental and Resource Economists, Athens, Greece, June 28-July 1, 2017.
- \*[166] Nasim, S., S. Helfand and A. Dinar, Groundwater Management under Alternative Tenure Arrangements. Paper presented at the 23<sup>rd</sup> annual conference of the European Association of Environmental and Resource Economists, Athens, Greece, June 28-July 1, 2017.
- [167] Esteban, E. A. Dinar, and J. Albiac, Political Economy of Water Policy Reform: Analyzing the Effort for and Effectiveness of Lobbying. Paper presented (poster session) at the 23<sup>rd</sup> annual conference of the European Association of Environmental and Resource Economists, Athens, Greece, June 28-July 1, 2017.
- [168] Cohen-Amin, S., E. Ert, and A. Dinar, The Effect of Issue Linkage on Cooperation in Bilateral Conflicts: An Experimental Study. Paper presented (Poster Session) at the 36<sup>th</sup> annual conference of the European Association for Decision Making, Haifa, Israel August 20-24, 2017.
- [169] Dinar, A. and A. Reznik, Efficiency and Cost Analysis for the Wastewater Treatment Sector in California. Presentation at the California Department of Water Resources, Sacramento, CA, August 31, 2017.
- [170] Dinar, A., (Water) Scarcity is the Mother of All Inventions/Innovations: Policy Implications in an International Context. Presentation at the Mini-series “State As Laboratories for Innovation”, UC Center Sacramento, November 8, 2017.
- [180] Ashraf A. and A. Dinar, Sustaining Agricultural Productivity under CA’s Harsh Climate: Insights from a Farm-level Regional Analysis. Poster presented at the University of California, Division of Agriculture and Natural Resources, ANR Statewide Conference. Ontario, CA April 9-12, 2018.
- [181] Dinar, A., The Challenges of Reducing Water-related Subsidies in Agriculture. World Bank - OECD Workshop “Facilitating Policy Change towards Sustainable Water Use in Agriculture,” World Bank, Washington, DC – May 29-30, 2018.
- \*[182] Reznik, A., A. Dinar and F. Hernandez-Sancho, Treated Wastewater Reuse: An Efficient and Sustainable Solution for Natural Water Resources Growing Scarcity. 6<sup>th</sup> World Congress of Environmental and Resource Economists, Gothenburg, Sweden, June 25-29, 2018.
- [183] Esteban, E., A. Dinar and J. Albiac, The Political Economy of Water Policy Reform: Estimating and Interpreting Lobbying Efforts and Effectiveness Functions. 6<sup>th</sup> World Congress of Environmental and Resource Economists, Gothenburg, Sweden, June 25-29, 2018.

**Conferences, Sessions, and Workshop organization, invited seminars**

- [1] Bernauer, T., H. Buhaug, and A. Dinar, Co-organizers, Workshop: Water and Security, ISA Annual Convention, New Orleans, February 16, 2010.
- [2] Dinar, A. Organizer. International Drought Symposium: Integrating Science and Policy. Riverside, CA, March 24-26, 2010.
- [3] Mendelsohn, R. and A. Dinar, Co-organizers, Closed Session on Impact of Climate Change on Agriculture, at the 4<sup>th</sup> World Congress of Environmental and Resource Economists, Université du Québec à Montréal, June 28-July 2, 2010.
- [4] Dinar, A., and others, Co-Organizers, 8<sup>th</sup> Game Theory Practice Conference dedicated to Global and international issues, Riverside, California, July 11-12, 2011.
- [5] Esteban, E. and A. Dinar, Co-organizers special session: Groundwater and Ecosystems: Economics of Groundwater Management and the Well-being of Ecological Systems. 19<sup>th</sup> Annual conference of the European Association of Environmental and Resource Economists, Prague, Czech Republic, June 28-30, 2012.

- [6] Suarez, D. and A. Dinar, 3<sup>rd</sup> International Salinity Forum, Riverside, California, June 16-18, 2014.
- [7] Tsur, Y. and A. Dinar, Management of Transboundary Water Resources Under Scarcity: Perspectives on agriculture and food security. The Hebrew University of Jerusalem, Rehovot, Israel, June 22-23, 2015.
- [8] Dinar, A., D. Zilberman, E. Hanak, and R. Kravitz, Water Pricing for a Dry Future: Policy Ideas from Abroad and their Relevance to California. UC Center Sacramento, February 2-3, 2016.
- [9] Dinar, A. and J. Albiac, Policy session: Global-Local Interactions in Water Policy: Learning from Country Experiences. 6<sup>th</sup> World Congress of Environmental and Resource Economists, Gothenburg, Sweden, June 25-29, 2018.

### **Scientific Program Committee Member**

- [1] Economics of Drought and Drought Preparedness in the Mediterranean, Istanbul, Turkey, March 4-6, 2010.
- [2] 8<sup>th</sup> Meeting on Game Theory Practice Dedicated to Global and transboundary issues, Riverside CA, July 11-12, 2011.
- [3] 19<sup>th</sup> Annual conference of the European Association of Environmental and Resource Economists, Prague, Czech Republic, June 28-30, 2012.
- [4] 3<sup>rd</sup> International Conference on Water Economics and Statistics, International Water Association, Marbella, Spain, April 24-26, 2013.
- [5] 6<sup>th</sup> International Workshop on Cooperative Games and Multiagent Systems, Istanbul, Turkey, May 4-5, 2015.
- [6] 12<sup>th</sup> Annual IWREC Meeting, held at the World Bank Headquarters, Washington, DC, September 11-13, 2016.
- [7] 4<sup>th</sup> Conference of the International Water Association on Water Economics, Statistics and Finance, Catholic University of Chile, Santiago, Chile, April 26 – 28, 2017.
- [8] 23<sup>rd</sup> Annual conference of the European Association of Environmental and Resource Economists, Athens, Greece, June 28-July 1, 2017.
- [9] 6<sup>th</sup> World Congress of Environmental and Resource Economists, Gothenburg, Sweden, June 25-29, 2018.

### **RESEARCH GRANTS**

- [1] Yaron, D. and A. Dinar, *Economic analysis of Drainage and Salinity Problems in the Jisrael Valley*. Israel Water Commissioner (NIS30,000), 1987.
- [2] Dinar, A., *Adoption of Improved Irrigation and Drainage Reduction Technologies in the West Side of the San Joaquin Valley*. U.S. Bureau of Reclamation #'s 9-PG-20-03010 and 9-PG-20-03380 (\$120,000), 1988-1990. (with Mark Campbell a Social Scientist)
- [3] Dinar, A and R. E. Howitt, *The Economics of Water Quality Cooperation*. University of California Center for Cooperatives (\$17,854), 1991-1992.
- [4] Howitt, R., A. Dinar, E. Loehman, D. Zilberman, M. Aillery, E. Hoffman, *Regional Modeling and Economic Incentives for Water Quality and Quantity Control*. U.S. Geological Survey #14-08-001-G2084 (\$91,949), 1991-1993. (With Mark Grismer a Hydrologist)
- [5] Dinar, A and A. Xepapadeas, *Policy Implications of Environmental Regulations: The Case of Doing and Learning in a Non-Point Source Pollution*. Fondazione ENI Enrico Mattei, Millan, Italy #041-93 (26,000,000Lit.), 1992-1993.
- [6] Huffman, E., S. Rassenti, V. Smith, A. Dinar, and R. Howitt, *Environmental Change and Adaptive Resource Markets: Computer Assisted Markets for Water Allocation*. NSF, U.S. (\$846,600), 1996-2000.
- [7] Dinar, A., E. Kaufman, J. Oppenheimer, and A. Wolf, *International Fresh Water Disputes and Conflict Resolution - An Integrated Approach*. World Bank Research Support Budget (\$15,000 for Grant Preparation), 1996.
- [8] Dinar, A., R. Mendelsohn, R. Evenson, S. Lonergan, and Jyote Parikh, *Measuring the Impact of Climate Change on Indian Agriculture*. World Bank Research Support Budget (\$40,000), Electric Power Research Institute (\$45,000), 1996-1997.

- [9] Dinar, A. and R. Maria Saleth, *Comparative Analysis of Water Institutions and Their Impact on the Performance of the Water Sector in Various Countries*. World Bank Research Support Budget, DECRG, Norwegian TF, Swiss TF, and Dutch TF (\$212,500), 1997-2001.
- [10] Dinar, A. and Y. Tsur, *Guidelines for Pricing Irrigation Water Based on Efficiency and Implementation Costs (with Considerations of Fairness, Property Rights and Income Distribution)*, World Bank Research Preparation Budget (\$18,000), 1997-1998.
- [11] Dinar, A. and S. Zekri, *Impact of Climate Change on Tunisian Agriculture*, Norwegian Trust Fund (\$30,000), 1999-2000.
- [12] Dinar, A. and R. Doukkali, *Impact of Climate Change on Moroccan Agriculture*, Dutch Trust Fund (\$25,000), 1999-2000.
- [13] Dinar, A., Y. Tsur, T. Roe, and R. Doukkali, *Guidelines for Pricing Irrigation Water Based on Efficiency, Implementation Costs, and Equity*. World Bank Research Support Budget (\$147,000), 1999-2001.
- [14] Palmieri A, F. Shah, and A. Dinar, *Economic and Engineering Evaluation of Alternative Strategies for Managing Sedimentation in Storage Reservoirs*. World Bank Research Support Budget (\$176,400), 2000-2002.
- [15] Kemper, K., A. Dinar and G. Alaerts, *Integrated Riverbasin Management and the Principle of Managing Water Resources at the Lowest Appropriate Level—When and Why Does it (Not) Work in Practice?* World Bank Research Support Budget, Research Preparation Grant, (\$33,000), 2001.
- [16] Kemper, K., A. Dinar William Blomquist, and G. Alaerts, *Integrated Riverbasin Management and the Principle of Managing Water Resources at the Lowest Appropriate Level—When and Why Does it (Not) Work in Practice?* World Bank Research Support Budget, (\$350,000), 2002-2005.
- [17] Dinar, A., Mendelsohn, R., *Climate and Rural Poverty-Incorporating Climate into Rural Development Strategies*. World Bank Research Support Budget, Research Preparation Grant, (\$430,000), 2003-2006.
- [18] Dinar, A., GEF medium size targeted research-*Climate, Water and Agriculture: Impacts on and Adaptation of Agro-Ecological Systems in Africa*, (GEF-\$700,000; TFs-\$620,000), (2002-2005).
- [19] Dinar, A., T. Roe, Y. Tsur, R. Doukkali, R. Hassan, and E. Cakmak. *Macro-Micro Linkages of Irrigation Water Management*. (\$110,000), 2003.
- [20] Dinar, A., F. Patrone, C. Carraro. *Cooperative Arrangements for Allocation of Water among Production and Environmental Uses under Stochastic Supply Conditions*. World Bank Research Support Budget, Research Preparation Grant and the Italian TF (\$105,000), 2003-2004.
- [21] Dinar, A. and M. Asad. *Economic Assessment of Policy Interventions in the Water Sector of Mexico*. World Bank Mexico Department, Economic Sector Work (\$265,000) 2005-2006.
- [22] Dinar, A. and Rita Cestti. *Developing Tools and Methodologies to Support the Preparation of the a River Basin Management Plan in the Maritza River Basin, Bulgaria*. BNWPP TF (\$106,000), 2005-2006.
- [23] Dinar A. *Cooperative Arrangements to Water Quantity and Quality in the West Delta Region of Egypt*. (\$25,000), 2006. Pilot Project to test the concept.
- [24] Dinar, A., R. Maria Saleth and Susanne Neubert. *The Institutional Matrix of the Millennium Development Goals: An Empirical Study of Food Security Goals in Kalaoya Basin, Sri Lanka*. World Bank Research Committee (\$30,000), 2006.
- [25] Dinar, A. T. Roe, Y. Tsur, R. Hassan, and E. Cakmak. *Macro-Micro Feedback Links of Irrigation Water Management: phase 2 applied in South Africa and Turkey*. World Bank Research Committee (\$295,000) 2006-2008.
- [26] Dinar, A. *Long Term Sustainability of Hydropower-based Energy Generation and Water Allocation Multilateral Agreements within Changing Climate Scenarios*. World Bank, Knowledge for Change Program (KCP) (\$150,000) 2008-2009.
- [27] Dinar, A., P. Ambrosi and D. Larson, *Local Actions for Global Impact: Inference of the Role of the Flexible Mechanisms in Reducing GHGs*. World Bank, Knowledge for Change Program (KCP) (\$80,000) 2007-2008.
- [28] Dinar, A., *Water Policy for California*, Public Policy Institute of California, (\$40,000) May 2009-October 2010.

- [29] Dinar, A., *International Drought Symposium: Integrating Science and Policy*. NSF supported symposium and project preparation workshop, (\$45,000) March 24-28, 2010.
- [30] Dinar, A., *Water Policy and Management Challenges in the West*. Multi-State Hatch Project, U.S. Department of Agriculture, (\$95,000) October 2009 to September 30, 2014.
- [31] Dinar, A. and S. Farolfi (IWEGA), *Water Governance Decentralization in Africa: A new framework for Reform Process and Performance Analysis*, World Bank, (\$120,000) April 2010-April 2013.
- [32] Schwabe, K., K. Baerenklau and A. Dinar, *Adoption of Outdoor Water Conservation Technologies*. Giannini Foundation, (\$24,749) July 2012-June 2013.
- [33] Baerenklau, K., A. Dinar, and K., Schwabe, *Water Pricing Study*, Eastern Municipal Water District, (\$28,000), June 2011-May 2012.
- [34] Sickman, J., D. Jenerette, Robert Allen, M. Allen, A. Dinar, K. Baerenklau, M. Matsumoto, *The Aquifer System of Southern California: Addressing Key Gaps in Knowledge Regarding Groundwater Sustainability and Climate Change*, UCR 2020 Seed Projects Fund (\$35,000), August 2012-June 2012.
- [35] Crowley, D., M. L. Arpaia, A. Dinar, *Decision Support Tools for Avocado Production and Fruit Quality*, Avocado Commission (\$902,668), January 2012-December 2018.
- [36] Dinar, A. and D. Crowley, *Adoption of Technologies and Management Practices by California Avocado Growers in Response to Water Scarcity and Quality Problems*, Giannini Foundation, (\$25,000), July 2012-June 2013.
- [37] Dinar, A. and S. Helfand, *Modeling Allocative Inefficiency of Irrigation Water across Agricultural Tenure Systems in Pakistan*, International Food Policy Research Institute (\$5,886), March 2012-December 2012.
- [38] Dinar, A. and S. Helfand, *Modeling Allocative Inefficiency of Irrigation Water across Agricultural Tenure Systems in Pakistan (Large Grant)*, International Food Policy Research Institute (\$40,000), July 2012-December 2013.
- [39] Dinar, A. and T. Gaston, *Adaptation of Western US Agriculture to Climate Change Induced Water Scarcity*, United States BOR Research and Development Office, Science and Technology Program (\$35,000), September 2012-December 2013.
- [40] Dinar A., *3<sup>rd</sup> Salinity Forum*, Riverside, California, June 16-18, 2014. Giannini Foundation (\$15,000), June 2012-June 2014.
- [41] Dinar A., *3<sup>rd</sup> Salinity Forum*, Riverside, California, June 16-18, 2014. UC ANR (\$30,000), June 2012-June 2014.
- [42] Dinar, A., D. Zilberman, and D. Parker, *Economic Estimates of University of California Cooperative Extension Impacts in California*, University of California Agricultural and Natural Resources Division (\$214,179), August 15, 2013-July 14, 2015.
- [43] Dinar A., *Impact of and Adaptation to Climate Change Induced Water Scarcity in Southern California/Desert Agricultural Production Regions*, Giannini Foundation, (\$27,000), July 2014-June 2015.
- [44] Dinar, A. and G. Gonzales-Rivera, *Impact of UC Cooperative Extension on California's Irrigation Water Use Efficiency*, Giannini Foundation, (\$27,000), July 2015-June 2016.
- [45] Ashraf, A. and A. Dinar, *Assessing the Resilience of Desert Farming Systems to Water Scarcity*, The John Randolph Haynes and Dora Haynes Foundation, (\$20,000), July 2015 – June 2016.
- [46] Dinar, A., A. Rapoport and Edgar Tellez-Foster, *Reforming Electricity Subsidies for Groundwater Extraction: A Field Study in Mexico*, The Center for Behavioral and Experimental Agri-Environmental Research, (\$19,189), January 2016-July 2017.
- [47] Dinar, A. and D. Zilberman, *Water Pricing for a Dry Future: Policy Ideas from Abroad and their Relevance to California*, Sacramento, California, February 2-3, 2016. Giannini Foundation, Public Policy Institute of California, University of California, Division of Agriculture and Natural Resources, University of California, Berkeley, University of California, Riverside, Metropolitan Water District of California (\$40,000), January 2016 – February 2016.
- [48] Dinar, A., *Economic Consideration of Development and Use of Marginal Water in View of Water Scarcity and Environmental Pollution*. UCR Agricultural Experiment Station mission funding (\$17,500), July 2016-June 2017.



- [49] Dinar, A., *Regional Aquifer Management: Economics and Institutional Arrangements of Managed Aquifer Recharge in the Central Valley, California*. USDA—Research, Education, and Economics (\$150,000), September 2017-August, 2019.
- [50] Dinar, A. and A. Reznik, Sustainable Economic and Environmental Considerations of Recycled Municipal Wastewater Reuse in Irrigated Agriculture: An Empirical Regional Framework with Application to Escondido, California. Giannini Foundation (\$27,000), July 2018-June 2019.