

VITA

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Date of Birth: February 7th, 1974. SALT - JORDAN.

Nationality: Jordanian

Social Status: Married.

Education:

- Ph.D. degree in Forestry and Natural Resources (2003) from Purdue University, West Lafayette – Indiana, USA.
- M.Sc. degree in Plant Production (1997) from University of Jordan, Amman – JORDAN.
- B.Sc. degree in Agriculture (1995) from University of Jordan, Amman – JORDAN.

Recent and assigned Position:

- Professor in the department of Natural Resources and Environment and Department of Plant Production. Faculty of Agriculture. Sept 2019 to Present.
- Dean Assistant – Faculty of Agriculture. Sept 2013 – Sept 2018.
- Associate Professor in the department of Plant Production. Jordan University of Science and Technology. Irbid – JORDAN. 2013 - 2019 (Joint Professor).
- Associate Professor in the department of Natural Resources and Environment. Jordan University of Science and Technology. Irbid – JORDAN. 2011 - 2019.
- Assistant Professor in the department of Natural Resources and Environment. Jordan University of Science and Technology. Irbid – JORDAN. 2004 – 2011.
- Chairman of Department of Natural Resources and Environment. 2006 –2008.
- Project Coordinator – JUST site in the Water Benchmarks (Formerly Water Harvesting Project) of CWANA project/ ICARDA - Phase II from October 2010 – 2013.

Professional Experience:

- Ph. D Graduate in Forestry and Natural Resources. Department of Forestry and Natural Resources under the supervision of Professor Andrew Gillespie. 1999- 2003.
- Graduate teaching assistant Purdue University at Lily Library under the supervision of Professor Katie Clark (Newman). 2001-2003
- Research assistant, University of Jordan on cooperative project between ICARDA and Jordan Arid Zone Productivity Project (JAZPP) - University of Jordan, under the supervision of Profesor Omar Kafawin, 1997/8 – 1998/8.
- Research Assistant, JAZPP, Faculty of Agriculture, University of Jordan. 1998/9-1998/12.
- Teaching assistant 1996-1997, University of Jordan, under the supervision of Dr. Hani Saoub.
- Groasis waterboxx expert and trainer certificate from Holland Aquapro Company awarded in 2011.
- Ecosystem services Training of Trainees (TOT) course expert in 2015.
- Desert Plant production Expert in 2018 – UNDP consultant.

National and International Expert in several projects:

- a) National consultant and a core team member in the Forest Policy project in Jordan. Support to Forest Policy and Strategy for Forest Sector Development in Jordan. Sponsored by FAO. 2006-2008.
- b) A reviewer to the Red- Dead conduit: Reviewing the Ecological Assessment as a component of Onshore Biophysical Report For the RED-DEAD Conduit. World Bank, February 2011.
- c) The Ecological Impact Assessment (EIA) of the proposed site for establishing The Royal Military Academy in Birges, north of Jordan (Biodiversity including Flora, Forestry, Fauna). June 2011. Alshamel Consultancy Company.
- d) The Jordan Rift Valley Integrated Ecosystem Management Project with Royal Society For Conservation Nature (RSCN) – Vegetation monitoring and reforestation of degraded areas. (2009-2013).
- e) Environmental Baseline Assessment in Jabal Ajlun forest cover using GIS and remote sensing. May 2012. Eco-consult company.
- f) A consultant in Petrol Storage project – biodiversity consultant with HIMA company April 2014.
- g) Monitoring of Land Use Changes in Ras Al Khair Area Using High-Resolution Satellite Images during the Years 2007 – 2012. (KSA, ARSENCO company).
- h) Monitoring of Land Use Changes in Ras Al Khair Area Using High-Resolution Satellite Images in 2013. (KSA, ARSENCO company).
- i) Monitoring of Land Use Changes in Ras Al Khair Area Using High-Resolution Satellite Images in 2014. (KSA, ARSENCO company).
- j) Sahara Forest Project in Qatar. Monitoring of vegetation and rehabilitation of the project site (2012).
- k) Sahara Forest Project in Qatar. Monitoring of vegetation and rehabilitation of the project site (2013).
- l) Monitoring of Acacia species in Wadi Araba during the period of 2007-2013. Proposed LTER site project.
- m) Monitoring of Junipers in Dana Reserve during the period of 2013-2014. Jordan Rift valley project.
- n) Monitoring Acacia Albida in North Ghor (Tal Al Arbaeen). JRV project 2014. Tel Al-arbaeen society.
- o) Plantation of Medicinal plants and Vegetable crops in North Ghor (Tal Al Arbaeen) using water boxes techniques. 2014 funded by the JRV project RSCN.
- p) Vegetation Rehabilitation in Suwyemeh Area (Dead Sea Ecopark site) in collaboration with Suwyemeh Society. A comparative study between traditional forestation and using water boxes technique. Birdlife Foundation Funded Project (2014).
- q) Management of *Prosopis juliflora* invasion in the Jordan Valley, Suwyemeh (2015-2017).
- r) National consultant the Forest Policy. 2014. A consultant in the forest policy project in collaboration with the Jordan Green building council (JGBC) and RSCN funded through the USAID.
- s) Reviewer for the proposals submitted to the Quality Improvement Fund under the Education to Work Transition Project (E2WTP) in Palestine (2014 and 2017).
- t) IUCN Consultant in the Project Preparation Grant of the UNEP-GEF project “**Healthy Ecosystem for Rangeland Development (HERD): Sustainable rangeland management for biodiversity conservation and climate change mitigation**”. The consultancy is commissioned by the IUCN West Asia and Global Dryland Initiative (2016).
- u) Member in the invasive species technical committee (Flora group) in the Ecosystem services project funded by the GIZ and the Ministry of Environment.
- v) Consultant with the Disi Women society 2018. The productivity of Al-Gatha (Haloxylon) in Wadi Rum. A UNDP funded Project.
- w) Desert Plants Production Specialist. 2018. A UNDP assignment short through Mainstreaming Rio Convention Provisions into National Sectoral Policies in Jordan.
- x) Consultant (Team Leader) in the Hashemite Fund for the Jordanian Badia Development (HFJBD) for the “**Healthy Ecosystem for Rangeland Development (HERD): Sustainable rangeland management for biodiversity conservation and climate change mitigation**” project. 2018-2019

- y) National expert in the Consultancy Service for the GIZ Project “Protection of Environment and Biodiversity in Jordan II” (PROTEB II). 2020. Biodiversity section.

Honors:

Member in the Honor Society of Agriculture, Gamma Sigma Delta – Purdue University, in recognition of high scholarship and outstanding achievement (2001).

Memberships:

1. Agricultural Engineers Association since 1995 to present.
2. Society of American Foresters since 1999 to present.
3. The American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and Soil Science Society of America (SSSA) since 2000 to 2009.
4. American Society of Plant Biologists since 2002 to 2006.
5. Honor Society of Agriculture, Gamma Sigma Delta – Purdue University since 2001 to present.
6. The National Arbor Day Foundation since 2001 to 2006.
7. Member in Al-Shajrah Organization since 2010 – to present

Research Scopes:

Natural Vegetation Eco-physiology and management, Forest ecology and management, Agroforestry – productivity of trees and field Crops, Forest Nurseries, Drought and salinity stress (Physiology and Biochemistry), and Ecosystem monitoring and land rehabilitation, Monitoring desert plants.

Funded Projects

1- National:

- a) Growth and performance of different multipurpose forest tree species grown in the arid and semi-arid environment. Funded by Deanship of research in JUST. (2500 JD).
- b) Allelopathic effects of different crop species grown under different Pine stands northern of Jordan. Funded by Deanship of research. (7250 JD). 2007-2010.
- c) Evaluating the effect of different water harvesting techniques on the growth and yield of natural and planted vegetation. New Fund from Deanship of Research (9500 JD). 2011-2014

2- International:

- a) Introduction of new drought and saline tolerant species to Jordan (USAID). CO-PI. A USAID funded project (115,000 USD). 2007-2011.
- b) Assessment of the impact of olive mill wastewater on forest trees and crops growth, and its potential use by the local community in northern of Jordan (USAID- JEWEL) (5000 JD). 2012-2014.
- c) Impact of Ajloun Forest Reserve on Biodiversity Conservation and Supporting Local People Livelihood. (USAID- JEWEL) (5000 JD). 2012-2014.
- d) The Role of Gender in Managing Natural and Agricultural Resources in Bani Kenana District, Irbid Governorate North of Jordan. (USAID- JEWEL) (5000 JD). 2012-2014.

Teaching Several Courses in the Department of Natural Resources and Environment and Dept of plant Production:

- 1- Forest Ecology (NR 425)
- 2- Forest Development and Improvement (Silviculture) (NR 442)
- 3- Forestation (NR 344)
- 4- Forest Nurseries (NR341)
- 5- Natural Resources and Man (NR200)
- 6- Wood Science (NR 381)
- 7- Ecosystem Management (NR 745).
- 8- Environmental Impact Assessment (NR 366).
- 9- Agroforestry (NR 387).

- 10- Vegetation Ecology (NR 410)
- 11- Soil Plant water relations (NR306).
- 12- Forest Science (NR 210).
- 12- Plant Physiology (PP224).
- 13- Plant Water relationships (PP316).
- 12- Advanced Plant Physiology (PP711).
- 13- Advanced Floriculture (PP724).

Publications and Presentations:

1. **Maher J. Tadros**, Naji K. Al-Mefleh, Yahia Othman, Amani Al-Assaf. 2021. Water harvesting techniques for improving soil water content, and morpho-physiology of pistachio trees under rainfed conditions. January 2021. *Agricultural Water Management* 243:106464. DOI: 10.1016/j.agwat.2020.106464.
2. **Maher J. Tadros**, Amani Al-Assaf, Yahia Othman, Hatem Tayfor. 2020. Evaluating the Effect of *Prosopis juliflora*, an Alien Invasive Species, on Land Cover Change Using Remote Sensing Approach. *Sustainability* 12(5887). DOI: 10.3390/su12155887.
3. **Maher J. Tadros**, Hussam J. Omari, Munir A. Turk. 2019. The morphological, physiological and biochemical responses of sweet corn to foliar application of amino acids biostimulants sprayed at three growth stages. *Australian Journal of Crop Sciences*.13(3): 412-417.
4. Ahmad M. Al-Far, **Maher J. Tadros**, Ibrahim M. Makhadmeh. 2019. Evaluation of different soilless media on growth, quality, and yield of cucumber (*Cucumis sativus* L.) grown under greenhouse conditions. *Australian Journal of Crop Sciences*. 13(8):1388-1401
5. **Maher J Tadros** and Yaseen Ananbeh.2019. Vegetation composition and structure of woody plant communities in Ajloun Forest Reserve. *Jordan Journal of Agricultural Sciences*. Accepted August 2019.
6. Naji K. Al-Mefleh, **Maher J Tadros** and Majed M. Abu-Zreig.2019. The effect of supplemental irrigation from polyacrylamide-treated microcatchments on the growth of acacia saligna in dryland. *Forest Science and Technology* 15(3):111-116
7. H. Aldakil, Z. W. Jaradat and **M. J Tadros**.2019. First Report of *Fusarium equiseti* Causing Crown Rot on Cucumber in Jordan Valley. *Plant Disease*. Accepted June 2019. doi.org/10.1094/PDIS-11-18-2073-PDN
8. M. H. Alboom, R. ALKHATIB, B. ALKHATIB, L. AL-EITAN, N. ABDO, **M. J TADROS**, and E. BSOUL.2018. Physio-anatomical responses of tobacco under caffeine stress. *PHOTOSYNTHETICA*. 56 (4) :1140-1146
9. R. Alkhatib1 , M. Mheidat, N. Abdo, **M. J Tadros**, L. Al-Eitan, K. Al-Hadid.2019. Effect of lead on the physiological, biochemical and ultrastructural properties of *Leucaena leucocephala*. *Plant Biology*. Accepted June 2019. doi:10.1111/plb.13021
10. Jalal. A. Al-Tabbal, Naji. K. Al-Mefleh, Kamel K. Al-Zboon, and **Maher. J. Tadros**.2020. Effects of Volcanic Zeolite Tuff on Olive (*Olea Europaea* L.) Growth and Soil Chemistry under a Constant Water Level: Five Years' Monitoring Experience. *Environment and Natural Resources Journal*. Accepted June 2019.

11. **Tadros, M.J.**, Shapsoug, B. M. 2013. Simultaneous analysis of glycinebetaine and trigonelline in *Eucalyptus citriodora* hook (F.) in response to drought stress using reversed-phase high-performance liquid chromatography. *Journal of Food, Agriculture & Environment Vol.11 (3&4)*.
12. **Tadros, M.J.**, AL-Mefleh, N., Chandler, P. 2012. Morphology, productivity and forage quality of *Leucaena leucocephala* as influenced by irrigation under field conditions. *Agroforestry Systems* 86:73-81.
13. **Tadros, M.J.**, AL-Mefleh, N. and Mohawesh, O. 2012. Effect of irrigation water qualities on *Leucaena leucocephala* germination and early growth stage. *International Journal of Environmental Science and Technology*. V9 (2): 281-286. DOI: 10.1007/s13762-012-0033-y.
14. **Tadros, M.J.**, Samarah N. and Alqudah, A.M. 2011. Effect of different pre-sowing seed treatments on the germination of *Leucaena leucocephala* (Lam.) and *Acacia farnesiana* (L.).. *New Forests* 42:397–407, DOI: **10.1007/s11056-011-9260-1**.
15. **Tadros, M. J.** , El-Shatnawi, MK. J, Jaradat, R. M. 2011. Growth, persistence and quality of *Trigonella arabica* Del. and *Trigonella Caelesyriaca* Boiss. grown in the semi-arid rangeland north of Jordan. *Journal of Food, Agriculture and Environment Vol 9. (1): 389-393*.
16. **Tadros, M.J.** Alqudah, A.M. and Arabiat, Y.S. 2010. Comparative study between *Cupressus sempervirens* and *Cupressus arizonica* in seed germination and seedling vigor. *Crop Research*. Vol. 40, No. 3 (November): 178-184.
17. Mohawesh, O.E., Al-Absi, K.M. and **Tadros, M.J.** 2010. Effect of antitranspirant application on physiological and biochemical parameters of three orange cultivars grown under progressive water deficit. *Adv. Hort. Sci.*, 24(3): 183-194.
18. Alrababah, M.A., **Tadros M.J.**, Samarah, N. and Ghosheh, H. 2009. Allelopathic effects of *Pinus halepensis* and *Quercus coccifera* on the germination of Mediterranean crop seeds. *New Forest* 38:261-272.
19. Al-Mefleh, N.K. and **Tadros, M.J.** 2010. Influence of water quantity on the yield, water use efficiency, and plant water relations of *Leucaena leucocephala* in arid and semi arid environment using drip irrigation system. *African Journal of Agricultural Research Vol. 5(15)*, pp. 1917-1924.
20. Nasr, R. E, Yousef, M.E, and **Tadros, M.J.** 2011. Technical Efficiency of Medicinal and Herbal Plant Farms in Jordan. Accepted in *Jordan Journal of Agricultural Sciences V7 (3)*
21. **Tadros, M.J.** 2010. Water Harvesting Project in Jordan University of Science and Technology Site. A presentation in the 1st regional annual coordination and steering committee meetings 1-3 December 2010, Amman - Jordan. Community – Based Optimization of the Management of Scarc Water Resources. The Water Benchmarks of CWANA project – Phase II.

22. **Tadros, M.J.** 2007. The Role of Forest Policy Strategy in the Development of Forestry Education and Research. Presentation in the Second Forest Policy Forum for Launching the Forest Policy in Jordan. September 10th, 2007. Sponsored by FAO and Ministry of Agriculture.
23. **Tadros, M.J.** 2007. Forestry Education and Research. Presentation in the First Forest Policy Forum in Jordan. January 27th of 2007. Sponsored by FAO and Ministry of Agriculture.
24. **Tadros, M.** 2005. Jordan University of Science and Technology Establish Prince Hamzah Nature Reserve in Kufur Khal - Jerash. Al Reem. Vol 75: 34-35. Al- Reem is a publication of the Royal Society For Conservation Nature. Amman – Jordan.
25. **Tadros, M.J** and Al-Mefleh NK. 2012. Effect of water availability on forage production, quality and growth performance of *Leucaena leucocephala* grown under field conditions in a Mediterranean climate (in the Agroforestry Systems – Accepted Major May 2012).
26. **Tadros, M.J.** August 2003. The Physiology and biochemistry of the Multipurpose Forest Trees Species: *Leucaena leucocephala* (Lam.) De Wit, *Prosopis juliflora* (Swartz) DC, *Acacia saligna* (Labill.), and *Eucalyptus citriodora* (Hook f.) as Influenced by Water Stress. Ph.D thesis. Purdue University. West Lafayette, Indiana, USA.
27. **Tadros, M.J** and Gillespie A.R. 2002. Multipurpose Forest Trees: Evaluation of Productivity under Water stress. Poster presentation in the seventh annual research symposium. Forestry in the 21st century. Department of forestry and Natural Resources – Purdue University.
28. **Tadros, M.J.** 2000. Forest Tress in Jordan. Multimedia presentation presented to the Forest Biology Group in the Department of Forestry and Natural Resources - Purdue University.
29. **Tadros, M.J.** and **H.M. Saoub.**1999. Effect of cutting height and nitrogen fertilization on the productivity of three varieties of sudangrass. Dirasat, Agricultural Sciences. Vol. 26, No.3: 354-363.
30. **Tadros, M.J.** 1997. Effect of cutting height and Fertilization on the productivity of three varieties of sudangrass under irrigation in Jordan Valley. M.Sc thesis. University of Jordan. Amman. Jordan.