



**CURRICULUM VITAE OF
A. RASOUL MOSA AL-OMRAN**

TITLE Professor

Office Address Department of Soil Science
College of Food Agricultural Sciences
KingSaudUniversity
P.O. Box 2460
Riyadh, 11451
Saudi Arabia

Mobile 0505927855

Office Telephone 4678444

Home Telephone 4683462

Fax 4678440

E-mail Rasoul@KSU. Edu.SA

Degrees B.S. College of Agriculture, K.S.U. 1975. Saudi Arabia
M.Sc. University of California at Davis, 1979, in Water
Science (Irrigation) U.S.A.
Ph.D. Oregon State University, Corvallis, 1984, Soil Science, U.S.A.

Major Field Soil Science (soil physics)

Minor Field Agricultural Engineering (Irrigation)

Professional Societies American Society of Agronomy
Soil Science Society of America
Saudi Society for Agricultural Sciences

Administrative Positions Director of Agricultural Research Center at the
College of Agric. 1988-1990.

**Editor in-chief of the Journal of the Saudi Society of
Agricultural Sciences (2002- present)**

**Member of the Editorial Board of the Arid Land Research
and Management, USA (2003-**

1993- present Professor of Soil Science
1989-1993 Associate Professor
1984-1989 Assistance Professor
1990-1991 Sabbatical leave at University of
California at Davis working with Prof. D.R. Nielsen
in Geostatistical analysis of soil properties.

Publications

1- Over 90 published articles in national and international journal and a chapter in Soil Conditioner Handbook.

Current Research:

- 1- The use of clay deposits in irrigation water conservation
- 2- Surface and subsurface drip irrigation and water conservation
- 3- Evaluation of water quality and its effect on soil infiltration in Riyadh region
- 4- Infiltration in a calcareous sandy soil as affected by natural clay deposits
- 5- Crop water requirements

Funded Research

- 1- Co-investigator in project funded by KACST entitled “ Development of Irrigation water requirements model for water conservation in the kingdom of Saudi Arabia (2001-2003)
- 2- Principal investigator in project funded by KACST entitled “ Conservation of irrigation water in Saudi Arabia using natural and synthetic soil conditioners (2002-2004)
- 3- Principal investigator in project funded by Research center entitled spatial variability of some soil physical properties. (2002-2003).
- 4- Principal investigator in project funded by KACST entitled "Irrigation water conservation and soil management systems in intensive agriculture in Saudi Arabia .(2005-2007)

Publications

ARTICLES

- 1- **Al-Omran, A.M.** 1986. Temperature and water stress effects on the growth of corn seedling (*Zea mays* l.). J. Coll. Agric. K.S.U. 8:449-456.
- 2- **Al-Omran, A.M.** 1987. Evaluation of some irrigation water in central region of Saudi Arabia. J. Coll. Agric. K.S.U. 9:363-369.
- 3- **Al-Omran, A.M.**, M.A. Mustafa and A.A. Shalaby. 1987. Intermittent evaporation from soil columns as affected by gel-forming conditioners. Soil Sci. Soc. Am. J. 51:1593-1599.
- 4- **Al-Omran, A.M.**, M.A. Mustafa and M.Mursi. 1988. The influence of gel-forming conditioner on water retention and crust strength of some calcareous soil. J. Coll. Agric. K.S.U. 10:199-207.
- 5- Mustafa, M.A., **A.M. Al-Omran**, A. A. Shalaby and A.M. Al-Darby. 1988. Horizontal infiltration of water in soil columns as affected by gel-forming conditioner. Soil Science 145:330-336.
- 6- Mustafa, M.A., A.M. Al-Darby, **A.M. Al-Omran** and M.Mursi. 1989. Impact of gel conditioner and water quality upon soil infiltration. Irrigation Science 10: 169-176.
- 7- Al-Mustafa, W.A., and **A.M. Al-Omran**. 1989. Effect of soil moisture on growth and phosphorus uptake by wheat. ArabGulf J. Bio. Agri. 57(1): 43-51.
- 8- Al-Darby, A.M., M.A. Mustafa **A.M. Al-Omran** and M.O. Mahjooub. 1989. Effect of wheat residue and evaporative demand on intermittent evaporation. Soil Tillage Research 15:105-116.
- 9- **Al-Omran, A.M.**, M.A. Mustafa and A.A. Shalaby. 1990. Response of wheat to irrigation regimes and a gel conditioner. J. King Saud Univ. Agri Sci. 2(1): 139-145.
- 10- Al-Darby, A.M., M.A. Mustafa, **A.M. Al-Omran** and M.O. Mahjooub. 1990. Effect of three commercial conditioners on available water conserved and strength of a loamy sand soil. J. King Saud Univ. Agric. Sci. 2(2): 307-320.
- 11- Al-Mustafa, W.A., and **A.M. Al-Omran**. 1990. Reliability of 1:1, 1:2, and 1:5 weight extracts for expressing salinity in light textured soils of Saudi Arabia. J. King Saud Univ. Agri Sci. 2(2): 321-329.
- 12- **Al-Omran, A.M.**, A.A. Shalaby, M.A. Mustafa, and A.M. Al-Darby. 1990. Impact of water quality on crust strength of a gel conditioned calcareous sandy soil. Soil Technology 3: 57-62
- 13- Al-Darby, A.M., M.A. Mustafa and **A.M. Al-Omran**. 1990. Effect of water quality on infiltration of loamy sand soil treated with three gel conditioners. Soil Technology. 3: 83-90.

- 14- **Al-Omran, A.M.** 1990. The effect of water regimes on corn and wheat production. Emir. J. Agric. Sci. 2: 80-96.
- 15- **Al-Omran, A.M.**, A.M. Al-Darby, M.A. Mustafa and A.A. Shalaby. 1991. Impact of gel conditioners and water salinity on intermittent evaporation. Egyptian J. Soil Science 31: 575-588.
- 16- **Al-Omran, A.M.** 1991. Effect of deficit irrigation on potatoes production. J. King Saud Univ. Agri Sci. 3(1): 139-147.
- 17- **Al-Omran, A.M.**, M.A. Mustafa, A.M. Al-Darby, and A.A. Shalaby. 1991. Gel-conditioned barriers for water management of sandy soil. Irrigation Science 12: 273-286.
- 18- **Al-Omran, A.M.**, and A.A. Shalaby. 1992. Calculation of water requirements for some crops in the eastern and central regions of Saudi Arabia. J. King Saud Univ. Agri Sci. 4(1): 97-114. In Arabic.
- 19- **Al-Omran, A.M.**, and A.A. Shalaby. 1992. Effect of water quality and gel-conditioner rate on intermittent evaporation. J. King Saud Univ. Agri Sci. 4(2): 273-286.
- 20- Wendroth, O., **A.M. Al-Omran**, C. Kirda, K. Reichardt and D.R. Nielsen. 1992. State space approach to spatial variability of crop yield. Soil Sci. Soc. Am. J. 56: 801-807.
- 21- El-Shafei, Y.Z., **A.M. Al-Omran**, A.M. Al-Darby and A.A. Shalaby. 1992. Influence of upper layer treatment of gel-forming conditioner on water movement in sandy soils under sprinkler infiltration. Arid Soil Res. Rehab. 6: 217-231.
- 22- Al-Darby, A.M., **A.M. Al-Omran**, and A.A. Shalaby. 1993. Influence of water quality on water absorption capacity of soil gel-conditioners. J. King Saud Univ. Agric. Sci. 5(1): 111-117.
- 23- **Al-Omran, A.M.** and O. Elbassir. 1993. State space analysis of the spatial variability field-measured infiltration. Arab gulf J. Sci. Res. 11(1): 69-82.
- 24- **Al-Omran, A.M.** 1993. State space analysis of soil water content and textural fractions J. King Saud Univ. Agric. Sci. 5(2): 277-287.
- 25- El-Shafei, Y.Z., **A.M. Al-Omran**, and A.M. Al-Darby. 1993. Impact of kinetic energy of falling drops upon soil infiltrability. ICID Bulletin CIID. 42(2): 57-71.
- 26- El-Shafei, Y.Z., A.M. Al-Darby, A.A. Shalaby, and **A.M. Al-Omran**. 1994. Impact of a highly swelling gel-forming conditioner (Acryhope) upon water movement in uniform sandy soils. Arid Soil Res. Rehab. 8: 33-50.
- 27- Al-Harbi, A.R., **A.M. Al-Omran**, H. Wahdan, and A.A. Shalaby. 1994. Impact of irrigation regime and conditioner rate on tomato seedling growth. Arid Soil Res. Rehab. 8: 285-290.
- 28- Falatah, A.M., and **A.M. Al-Omran**. 1995. Impact of a soil conditioner on some selected chemical properties of calcareous soil. Arid Soil Res. Rehab. 9: 91-96.

- 29- Choudhary, M.I., A.A. Shalaby, and **A.M. Al-Omran**. 1995. Water holding capacity and evaporation of calcareous soils as affected by four synthetic polymers. Commun. Soil Sci. Plant Anal. 26(13&14): 2205-2215.
- 30- **Al-Omran, A.M.**, W.A. Al-Mustafa and M.M. Mursi. 1996. Spatial variability of some soil physical properties I. Autocorrelation, Variogram, Cross-correlation and Cross-variograms. J. King Saud Univ. Agric. Sci. 8(1):95-108 (In Arabic).
- 31- **Al-Omran, A.M.**, W.A. Al-Mustafa and M.M. Mursi. 1996. Spatial variability of some soil physical properties II. Kriging and Cokriging. J. King Saud Univ. Agric. Sci. 8(2):229-243. (In Arabic).
- 32- Al-Harbi, A.R., **A.M. Al-Omran**, M.I. Chodhary, H. Wahdan, and M.M. Mursi. 1996. Influence of soil conditioner rate on seed germination and growth of cucumber plants (*Cucumissativus L.*). Arab Gulf J. Sci. Res. 14: (1) 129-142.
- 33- Falatah, A.M., M.I. Choudhary, and **A.M. Al-Omran**. 1996. Changes in some chemical properties of arid soils as affected by synthetic polymers. Arid Soil Res. Rehab. 10:277-285.
- 34- Al-Darby, A.M., **A.M. Al-Omran**, Y.Z. El-Shafei, and A.A. Shalaby. 1996. Influence of highly swelling gel-forming conditioner (Acrhope) on hydrophysical properties of layered sandy soils. J. King Saud Univ. Agric. Sci. 8(1): 160-173.
- 35- Al-Harbi, A.R., **A.M. Al-Omran**, A.A. Shalaby, and M.I. Choudhary. 1996. Growth of cucumber to hydrophilic polymer application under soil moisture levels. J. of Vegetable Crop Production 2(2):57-64.
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- 39- Choudhary, M.I., **A.M. Al-Omran**, A.A. Shalaby. 1998. Physical properties of sandy soil as affected by a soil conditioner under wetting and drying cycles. Sultan Qaboos Univ. J. Scient. Res. Agric. Sci. 3(2):69-74.
- 40- Al-Wabel, M.I., **A.M. Al-Omran**, and A.A. Shalaby, and I. M. Choudhary. 1998. Effect of sewage sludge on some chemical properties of calcareous sandy soils. Communications in Soil Science and Plant Analysis. Vol.29(17&18): 2713-2724.

- 41- Falatah, A.M., **A.M. Al-Omran**, A.A. Shalaby and M.M. Mursi. 1999. Infiltration in a calcareous sandy soil as affected by water soluble polymers. Arid Soil Res. Rehab. 13:61-73.
- 42- Al-Harbi, A.R., **A.M. Al-Omran**, A.A. Shalaby, and M.I. Choudhary. 1999. Efficacy of hydrophilic polymer reduced with time under greenhouse experiments. Horti-Science.34 (2):223-224.
- 43- Falatah, A.M. **A.M. Al-Omran**, M.S. Nadeem and M.M. Mursi. 1999. Chemical composition of irrigation ground water used in some agricultural regions of Saudi Arabia. Emirates Journal for Agricultural Sciences. 11: 1-23. In Arabic.
- 44- **Al-Omran, A.M.**, A.M. Falatah, A.A. Shalaby, M.M. Mursi and M. Nadeem. 2001. Application of natural and synthetic soil conditioners for water conservation in calcareous sandy soil..J. King Saud Univ. Agric. Sci. In Arabic Vol. 14 (1): 101-112.
- 45- **Al-Omran, A.M.**, M.I. Choudhary, A.A. Shalaby and M.M. Mursi. 2002. Impact of natural clay deposits on water movement in calcareous sandy soil. J. Arid Land Research and Management. 16: 185-193.
- 46-**Al-Omran, A.M.** 2002.Irrigation water conservation in Saudi Arabia. Journal of the Saudi Society of Agricultural Sciences Vol. 1(1):1-50. In arabic
- 47- **Al-Omran, A.M.**, A.M. Falatah, A.A. Shalaby, M.M. Mursi, M. Nadeem, and M.I. Choudhary. 2002. Impact of the natural deposits of Saudi Arabia on selected physical properties of calcareous sandy soil. Drasat. Vol.29(3): 285-294.
- 48- Al-Matroud, S.S. ,**A.M. Al-Omran**, and G. Abdel-Nasser. 2003. Effect of water quality on infiltration rate of soils. Journal of the Saudi Society of Agricultural Sciences Vol. 2(1):1-25. In Arabic
- 49- Alazba, A.A., H.M. Alghobari, F.S. Mohammad, and **A.M. Al-Omran**. 2003. Measured and estimated crop ET and Kc for wheat and barley in central Saudi Arabia. Alexndria Journal of Agricultural Research Vol.48(2):1-9.
- 50- **Al-Omran, A.M.**, A.M. Falatah, A.S. Sheta, and A.R. Al-Harbi. 2004. Natural clay deposits for water management of sandy soils. J. Arid Land Research and Management.18:1-13.
- 51- **Al-Omran, A.M.**, F.S. Mohammad, H.M. Alghobari, and A.A. Alazba. 2004. Determination of evapotranspiration of tomato and squash using lysimeters in central Saudi Arabia. International Agricultural Engineering Journal, 13(1&2):27-36.
- 52- **Al-Omran, A.M.**, G. Abdel-Nasser, I.Choudhary and J. Al-Otuibi. 2004. Spatial variability of soil pH and salinity under dater palm cultivation.Research Bulletin#128. Research center ,Colleg of Agriculture, King Saud University.pp36

- 53 - **Al-Omran, A.M.**, A.M. Falatah. and S.S. Al-Matrood. 2005. Evaluation of irrigation well water quality in Riyadh region, Saudi Arabia. *Journal of King Abdulaziz Univ.* 16(2):23-40.
- 54- **Al-Omran, A.M.**, A.M. Falatah, A.S. Sheta, and A.R. Al-Harbi. 2004. Effect of clay deposits and irrigation levels on growth and water use efficiency of wheat. *Egyptian Journal of Soil Science.*44(4):477-487.
- 55- **Al-Omran, A.M.**, A.S. Sheta, A.M. Falatah, and A.R. Al-Harbi. 2005. Effect of drip irrigation on squash (*Cucubita pepo*) yield and water use efficiency in sandy calcareous soils amended with clay deposits. *Agricultural Water Management***73:43-55**
- 56-Sheta, A.S., **Al-Omran, A.M.**, A.M. Falatah, A.As. Sallam and A.R. Al-Harbi.2006. Characteristics of natural clay deposits in Saudi Arabia and their potential use for water conservations and mineral nutrients. *Journal of King Saud university. Agric, Sci.* 9(1): 25-38.
- 57- Sheta, A.S., **Al-Omran, A.M.**, A.M. Falatah, and A.R. Al-Harbi.2006. Effect of natural clay deposits and treated sewage sludge on physicochemical and moisture characteristics of Torripsamments. *Arid Land Research and Management.* 18(4):295-307.
- 58- **Al-Omran, A.M.**, A.M. Falatah, A.S. Sheta, and A.R. Al-Harbi. 2006. Use of clay deposits in water management of calcareous sandy soils under-surface and subsurface drip irrigation. *Arab gulf Journal of Scientific Research.*24(3):138-143.
- 59- **Al-Omran, A.M.**, A.S. Sheta, A.M. Falatah, and A.R. Al-Harbi. 2007. Effect of subsurface amendments and drip irrigation on tomato growth. *Drasat.* Vol.34(1):.13-24.
- 60-Abdel-Nasser, G.,**A. M. Al-Omran**, A.M. Falatah,A. S. Sheta*, A. R. Al-Harbi .2007. Impact of natural conditioners on water retention, infiltration and evaporation characteristics of sandy soil. *Journal of Applied Science.* 7(13):1699-1708.
- 61-Harbi, A.R., **A. M. Al-Omran** and F. I. El-Adgham. 2008. Effect of Drip Irrigation Levels and Emitters Depth on Okra (*Abelmoschus esculentus*) Growth.. *Journal of Applied Science. Journal of Applied Science.*8(15):2764-2769.
- 62- **Al-Omran, A.M**, S. Al-Damry, M. Nadeem and A. El-Eter. 2009. Effect of Irrigation Regime and Emitter Depth on Yield and Water Use for Tomato. *J. King Saud Univ. Agric. Sci.* 21(2):43-54.
- 63- Al-Garni, H. M. and **Al-Omran, A.M.** 2009. Determination and Evaluation of Chemical Composition of Sewage treated Water in Riyadh Main Plant for Irrigation. *J. Saudi Soc. For Agric. Sci.* 9(A1): 1-14.
- 64- AlHarbi, A. R. , M.A. Wahab-Allah, and **A.M. Alomran.** 2009. Effects of salinity and irrigation management on growth and yield of tomato grown

- under greenhouse conditions. Proc. IS on Prot. Cult. Mid WinterClimate.Acta Hort. 807:201-205.
- 65- **Al-Omran, A.M,** A.R.Alharbi, M.A. Wahab-Allah, M. Nadeem and A. El-Eter. 2010. Impact of Saline Water Rates under Surface and Subsurface Drip Irrigation System on Tomato Production. *Turkish Journal of Agriculture and Forestry*. 33:1-15.
- 66- Al-Faifi, H., **A. M. Al-Omran**, M. Nadeem, A. El-Eter, H.A. Khater and S.E. El-Magraby. 2010. Soil Deterioration as Influenced by Land Disposal of Reject Brine from Salbukh Water Desalination Plant at Riyadh, Saudi Arabia. *Desalination*. 250:479-484.
- 67- Al-Wabel, M., **A.M. Al-Omran**, S.E. El-Magraby. 2011. ASSESSING THE VALIDITY OF THE GRAY WATER RESULTING FROM ABLUTION FOR DIFFERENT PURPOSES. *J. of king Saud university For Agric. Sci*.
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- 74- **Alomran, A.M.**, I. I. Louki,A. A. Aly,A.R.Alharbi, M.E. Nadeem. **2013**. Cucumber yield response to deficit irrigation at open field experiments on Riyadh, Saudi Arabia. *Egyption Journal of Soil Science*. Accepted.
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- comparative study of Riyadh and Al-Ahsa regions. *Proceedings of the International Academy of Ecology and Environmental Sciences*, 2013, 3(1):42-51.
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- 77- Khater, A. M., L. H. Al-Mobark, A. A. Aly, and **A.M. Al-Omran**. 2013. Natural Radionuclides in Clay Deposits: Concentration and Dose Assessment. *Radiation Protection Dosimetry*. Pp(1-10) doi:10.1093/rpd/nct064
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- 81- Al-Harbi, A.R., A.M. Saleh, **A.M. Al-Omran**, and M.A. Wahb-Allah. 2014. Response of Bell-Pepper (*Capsicum annum L.*) to Salt Stress and Deficit Irrigation Strategy under Greenhouse Conditions. *Acta Hort*. 1034, ISHS: 443-450.
- 82- Aly, A.A., **A.M. Alomran** and M. Alharby. 2014. The Water Quality Index and Hydrochemical Characterization of Groundwater Resources in Hafar Albatin, Saudi Arabia. *Arabian Journal of Geosciences*. DOI 10.1007/s12517-014-1462-2
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- 84- Aly, **A.A.**, **A.M. Alomran** and A. Kahaha. 2015. Water management for Cucumber: Greenhouse experiment in Saudi Arabia and modeling study using Saltmed model. *Journal of Soil and Water Conservation Society*. 70(1):1-11
- 85- Al-Gadi, K., V.C. Patil, R. Madugundu, E. Tola, S. Marey, A.M. **Alomran**, and A. Al-Dosari. 2015. Variable rate application technology for optimizing alfalfa production in arid climate. . *International journal of agriculture and biology*. 17(1):71-79.
- 86- **Al-Omran**, A.M., F. Barakah, A. Altququ, A. Aly, and M. Nadeem. 2015. Drinking Water Quality Assessment and Water Quality Index of Riyadh, Saudi Arabia. *Water Quality Research Journal of Canada*. 50(3):287-296.

- 87- Al-Wabel, M. I., A.Usman, A. Al-Naggar, A. Aly, H. Ibrahim, S. Elmaghraby, and **A. M. Alomran**. 2015. *Conocarpus*biochar as a soil amendment for reducing heavy metals availability and uptake by maize plants. Saudi Journal of Biological Society. 20:503-511.
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- 92- **Al-Omran, A.M.**, A., Aly, M. Al-Wabel, A. Sallam, and M. Al-Shayaa. 2016.Hydrochemical characterization of groundwater under agricultural land in arid environment: a case study of Al-Kharj, Saudi Arabia. Arab J Geosci. DOI 10.1007/s12517-015-2136-5. 9:68-85.
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