

Prof. Dr. Muhammad Jamal Khan

List of Publications:

International Publications

1. Khan, M.J. A. Razzaq, M. K. Khattak and L. Garcia, 2009. Effect of different pre-sowing water application depths on wheat yield under spate irrigation in Dera Ismael Khan District of Pakistan. *Journal of Agricultural Water Management*, Volume 94, pp1487-1474.
2. Ghumman, A.R., Muhammad Zubair Khan and Muhammad Jamal Khan, 2006. Use of numerical modelling for management of canal irrigation water. Published in *ICID Journal of Irrigation and Drainage*, Vol. 55(4), pp-445-458.
3. Khan, G. D. M. Latif, M. J. Khan and R. S. Kanwar, 2002. Analysis of ground water behaviors in farmers controlled subsurface tile drainage system in Mardan, Pakistan *J. of Irrigation and Drainage System* 16: 327-345, Kluwer Academic Publisher, the Netherlands.
4. Bhatti, A.U., F. Hussain, F. Ullah and M.J.Khan, 1998. Use of Spatial Patterns of Soil Properties and Wheat Yield in Geostatistics for Determination of Fertilizer Rates. *Commun Soil Scie. Plant Anal.*, 29(5&6), 509-522.
5. Khan, M. J., E. J. Monke, and G. R. Foster, 1988, "Mulch Cover and Canopy Effect on Soil Loss, *Trans. ASAE* pp. 706-711.

Publication in HEC Recognized Journals

1. Khan, M. J., T. Tahir, A. Shahzadi and Abdul Malik, 2007. Effect of different irrigation scheduling on water use and yield of wheat. *Sarhad Journal of Agriculture* Vol. 23, No 4. PP 1055-1060.
2. Khan, M. J. and G. D. Khan, O. Ullah, M. Z. Khan and Naveed Ullah, 2007. Sediment load assessment in small embankment dams in Southern regions of NWFP, *Sarhad. J. Agric.* Vol. 23, No 2, PP 291-298.

3. Sarwar. T., S. M. Bilal, Naveedullah, M. Jamal Khan and Javaid A. Tariq, 2007. Management of small scale water logging through surface drain maintenance, Sarhad. J. Agric. Vol. 23, No 2 PP 399-405.
4. Khattak, M.K., M.J. Khan, M.J. Khattak, M. Asrar and M. Ibrahim, 2006. Economic Evaluation of deep tillage and shallow tillage practices during wheat crop production. Sarhad. J. Agric. Vol. 22, No 1 pp 155-162.
5. Khan, M.J. M.K. Khattak and S. Wahab, 2006. Influence of Various Tillage Practices on Selected Physical Properties of Sandy Loam Soil under Rainfed Area. Sarhad. J. Agric. Vol. 22, No 1, pp 71-80.
6. Khattak, M. K., M. J. Khan, and M. Saleem, 2006. Impact of various tillage practices on soil moisture content, bulk density and soil strength on clay loam soil condition under Rod-Kohi area of D. I. Khan. Sarhad J. Agric. Vol. 22, No 1, pp 61-69.
7. Rehman, S. J. A. Tariq and M. J. Khan, 2006. Effect of climatic change on evapotranspiration and net irrigation requirements. Sarhad J. Agric. Vol. 22, No 2, pp 287-291.
8. Khattak, M.K., M.J. Khan, M.S. Somroo, L.A. Jamali and M.S. Khan, 2005. Influence of Various Tillage Practices on Weed Control to Increase Maize Production under Irrigated Conditions. Pak. J. Weed Sci. Res. 11(1-2), pp 49-53.
9. Khattak, M.K., M.J. Khan, M. Asrar, S. Wahab and M. Ramazan , 2005. Enhancement of wheat yield and yield components by controlling wheat with deep tillage practices under irrigated clay loam soil condition. Pak. J. Weed Sci. Res. 11(3-4), pp 131-136.
10. Khattak, M.K and M.J. Khan, 2005. Effect of different tillage practices on weeds and yield of chickpea under sandy loam soil condition. Pak. J. Weed Sci. Res. 11(3-4), pp 157-164
11. Khan, M. Z, M. K. Khattak, M. J. Khan and M. Asrar, 2005. Comparison of water supply and demand for the Rabi season at tertiary level in the command of the Jui Shaikh canal irrigation system. Sarhad J. Agric. Vol. 21 , No 3, pp 417 – 423.

12. Tariq, J.A. , M. J. Khan and A. K. Afridi, 2005. Farmers irrigation water management practices of maize crop. J. Engineering and Applied Sciences Vol 24 No 2. pp 55-61.
13. Tariq, J. A. M. J. Khan and M. J. Kakar, 2004. Irrigation system performance monitoring as diagnostic tool to operation: Case study of Shahibala minor of Warsak Gravity Canal. Pakistan J. of Water Resources, vol. 8(1), pp 13-21.
14. Malik, A., Badruddin, M. J. Khan, M. Latif and I. Haq, 2004. Effect of over exploitation of ground water resources on water balance and quality in Lachi Valley of District Kohat. Sarhad J. of Agri. Vol. 20, No. 1, pp 125-133.
15. Malik, A., M. Latif, Badruddin, M. J. Khan, G. D. Khan and S. G. Khattak, 2004. Adverse effects of saline tube well water irrigation on soil and crop in Lachi Valley of district Kohat in NWFP. J. Eng and applied. Sci. Vol. 23 No.1 Jan-June, 2004.
16. Khattak, M. K., M. J. Khan, A. Q. Mughal, S. B. Bukhari and M. T. Jan., 2004. Influence of various tillage practices on yield of wheat-maize under clay loam soil condition, Sarhad Journal of Agric. Vol 20, No. 3, pp 429-434.
17. Tariq,J.A. and M. Jamal Khan. 2003. Influence of Lower Swat Canal irrigation system operation on water management practices at tertiary level. Pakistan J. of Water Resources, Vol. 7, (1), pp 29-41
18. Tariq, J. A., M. J. Khan and K. Usman, 2003. Irrigation scheduling of maize crop by pan evaporation method, Pakistan Journal of Water Resources, Vol 7(2), pp. 29-35.
19. Khan, M. J., M. N. Khan and M. J. Khan, 2003. Response of sunflower to different levels of sulfur. Pak. J. Soil Sci. Vol. 22(4), pp 42-49.
20. Tariq,J.A., M. Jamal Khan, Ihtishamul Haq. 2001. Effect of mulching on root zone moisture content and yield of different sunflower varieties under rainfed condition. Journal of Engineering and Applied Sciences. Vol. 20(1):101-114.

21. Sarwar, T.M, M. Jehangir and M.J. Khan, 2001. Effect of watercourse maintenance and discharge on conveyance losses and water distribution. Sarhad Journal of Agriculture Vol.17, No. 3, pp 387-394.
22. Sarwar, T. F. A. Kiyani and M.J. Khan, 2001. On-farm irrigation evaluation of sugarcane fields at in civil canal in NWFP, Sarhad Journal of Agriculture, Volume 17, No.2, pp 153-158.
23. Sarwar, T. S.I. Hussain and M.J. Khan, 2001. Performance evaluation of a composite pipe drainage system of Swabi SCARP, Sarhad Journal of Agriculture, Volume 17, No. 4 pp.595-600.
24. Khan, M. J., M. Asrar, S. Ahmed and M.Z. Khan. 2000. Hydraulic Performance Evaluation of Surezai Minor of Warsak Gravity Canal Irrigation System. Sarhad Journal of Agriculture Volume 16, No. 4, pp 377-388.
25. Rehman, M., M. J. Khan, M. R. Khattak and M. Asrar, 1999. Infiltration properties of five selected soils in Peshawar valley. Sarhad Journal of Agriculture Volume 15, No.3, pp 169-176.
26. Khan, M. J., R. Wahaj and M. Rehman, 1997. "Time effect of different tillage implements on infiltration rate under wheat crop". Sarhad J. of Agri., Vol. XIII (2), pp 151-160.
27. Khan, M. J., R. Wahaj and M. Rehman, 1997. "Comparison of different tillage implements on infiltration during wheat growing season. Sarhad J. of Agri., Vol. XIII (2), pp 141-150.
28. Badruddin, M. Abhar and M. J. Khan, 1997. "Effect of Initial Moisture Stress Levels on Yield of Different Wheat Varieties. Journal of Engg. and Applied Sciences, Vol. 16, No. 2, pp 149-155.
29. Ali, M. M. J. Khan and N. Ahmad, 1995 " Evaluation of irrigation application efficiency during wheat crops at Hajizai, Peshawar, Sarhad J. of Agri., Vol. XI (3), pp 317-324.

30. Khan, M. J., 1992. " Probabilistic analysis of net monthly and seasonal irrigation requirements of sugarcane crop in Peshawar valley" Sarhad Journal of Agriculture, Volume VIII No. 3, pp 385-398.
31. Khan, M. J., N. Rehman, and M. Asrar, 1992. " Seedling height and dry matter weight of wheat crop as influenced by different water quality parameter" Sarhad Journal of Agriculture, Volume VIII(2), pp 241-254.
32. Khan, M. J. 1991, "Net monthly irrigation requirements for wheat crop in Peshawar valley" Sarhad Journal of Agriculture Vol. VII, No. 4, pp 453-597.,
33. Khan, M. J., N. Rehman, and M. Tariq, 1991. " Effect of Water quality of Kohat district on germination, seedling height and dry matter weight of wheat" Sarhad Journal of Agriculture, Vol. VII, No. 5, pp 589-597

Accepted for Publication

1. Khan, M.J., Oad, Ramchand, Pacha Gul. 2008. Evaluation of Traditional Karez Irrigation Systems in Ghazni Province of Afghanistan. International Journal of Irrigation and Drainage (accepted for publication in International Journal of Irrigation and Drainage (ICID)).
2. Khan¹, M.J., Jan T. Twarowski and Luis Garcia 2008. Irrigation System Performance Evaluation of Chashma Right Bank Canal of Pakistan. International Journal of Irrigation and Drainage (submitted for publication) in International Journal of Irrigation and Drainage (ICID).

Proceedings Papers

1. Khan, M. J. Khan, Munawar Khan Khattak and M. Zubair Khan, 2006. " Evaluation of traditional Rod-Kohi irrigation system of D. I. Khan, Proceeding of the International Conference on Water and Environment, held in Agriculture University Faisalabad, October, 2006
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2. Rehman, M. J. Khan and J. A. Tariq , 2006. Assessment of temperature and precipitation changes in the selected zones of NWFP, presented in the Seminar organized by SPARCO at Rural Academy Peshawar.
3. Khan, M. J., G. D. Khan and J. A. Tariq, 2006. Assessment of Sedimentation in the earthen embankment dams in North-west of Pakistan, proceeding of the 2nd International Conference on Water resources and Arid Environment, held in Riyadh, Saudi Arabia.
4. Ghumman, A.R., Muhammad Zubair Khan and Muhammad Jamal Khan, 2005. Investigation of waterlogging and salinity using geographic information system. International Conference on GIS & RS Riyadh, Saudi Arabia.
5. Ghumman A.R., Muhammad Zubair Khan and Muhammad Jamal Khan, 2004. Use of geographical information system (GIS) to evaluate salinity and changes in water tables in SCARP Mardan. International Seminar on Salinity Mitigation for Efficient Water Resources Management, September, 25, 2004.
6. Khan, M. J., Naveedullah, M. Jamal Khan and Tahir Sarwar, 2004. Effect of different management strategies on wheat yield under waterlogged soil condition; Published in the Proceedings of the 3rd National seminar on Drainage in Pakistan” June 7-8, 2004, NWFP Agricultural University, Peshawar.
7. Sarwar, Tahir, S. M. Bilal, M. Jamal Khan and Javaid Tariq, 2004. Management of Small Scale Waterlogging through Surface Drain Maintenance. Published in the Proceedings of the 3rd National seminar on Drainage in Pakistan” June 7-8, 2004, NWFP Agricultural University, Peshawar.
8. Khan, M. Jamal, Nasir Muhammad, M. Jamal Khan, and Irshadullah , 2004. Impact of Management Practices and Amendments on Cotton-Wheat Cropping System Grown on Saline Sodic Soil. At Bannu Basin. Published in the Proceedings of the 3rd National seminar on Drainage in Pakistan” June 7-8, 2004, NWFP Agricultural University, Peshawar.
9. Khan, M. Jamal, S.M. Bilal, M. Jamal Khattak and Naveedullah, 2004. Effect of Different Management Strategies on Growth and Cotton at Surizai, Peshawar. Published in the Proceedings of the 3rd National seminar on Drainage in Pakistan” June 7-8, 2004, NWFP Agricultural University, Peshawar.

10. Shahnaz Arifullah, Anwaar Fazil Chishti and M. Jamal Khan, 2004. Irrigation Management in Public vs. Private Sector in NWFP. Published in the Proceedings of the 3rd National seminar on Drainage in Pakistan" June 7-8, 2004, NWFP Agricultural University, Peshawar.
11. Khan, G. D., M. Latif and M. J. Khan, 2001. Impact of farmers' managed controlled drainage in Mardan SCARP area. Proceeding of 2nd National Workshop on Drainage in Faisalabad, 2001.
12. Khan, M.J. and T. Sarwar, 2001, Effect of rainfall and irrigation on watertable depths and drainage coefficients in SCARP Madan. Proceeding of the National Drainage Workshop held in Faisalabad April 18-19, 2001.
13. Khan S. A. , M. J. Khan and Helena cristiana de Klein, 1997. The influence of physical conditions on water management practices in tertiary units: case study of hakra 6-R distributary of fordwah Eastern sadiqia canal system in southern Punjab. Proceeding of National Workshop on Water Management in NWFP (Oct.24-25,1997), Peshawar (Pakistan)
14. Sarwar, T. and M. J. Khan, 1999. Impact of drainage on agriculture. Published in Proceeding of Pakistan Council for Research in Water Resources.
15. Khan. M. J., K. S. Babar and M. Z. Khan. 1999. Hydraulic Performance Evaluation of Pabbi Minor of Warsak Gravity Canal Irrigation System. Proceedings of Pakistan Council for Research in Water Resources.
16. Khan, M.J.,H.M. Rust and T.Sarwar. 1997. Agricultural Impact assessment of subsurface tile drainage system of SCARP Mardan. Proceeding of National Workshop on "Water Management in N.W.F.P". (Oct. 24-25,1997), Peshawar (Pakistan).
17. Khan, M.J., T. Sarwar and H.M. Rust. 1997. Assessment of farmers' perceptions about irrigation water management practices after remodelling of Lower Swat Canal. Proceeding of National Workshop on "Water Management in N.W.F.P." (Oct.24-25, 1997), Peshawar (Pakistan).

18. Khan. J.M and Rehman A. Performance Evaluation of subsurface tile drainage system of scarp Mardan contract II command area. Proceeding of National Workshop on "Water Management in N.W.F.P." (Oct.24-25, 1997), Peshawar (Pakistan)
19. Khan J.M. Assessment of irrigation conveyance losses in Peshawar valley. Proceeding of National Workshop on "Water Management in N.W.F.P." (Oct.24-25, 1997), Peshawar (Pakistan)
20. Wahaj, R., Cristiana H.de Klein and M. J. Khan "Collective action for watercourse maintenance " Proceeding of National Workshop on Water Management in NWFP (Oct.24-25,1997), Peshawar (Pakistan).
21. Khan, M. J., Saddique Awan. 1997. Development of drainage data base for Scarp Mardan and Brief analysis of the hydraulic conductivity data. Proceeding of National Workshop on Water Management in NWFP (Oct.24-25,1997), Peshawar (Pakistan).
22. Arshad Ali, Badruddin, M. J. Khan and Nisar A. Memon, 1993. Level border irrigation layout and evaluation in Pakistan. Proceeding of Irrigation System Management Research Lahore, Pakistan from 11-4-1993 to 13-4-1993
23. Badruddin, M. J. Khan and A. Iqbal, 1993. Level border application efficiency under different soil conditions, Proceeding of Irrigation System Management Research Lahore, Pakistan from 11-4-1993 to 13-4-1993
24. Khan, M. J., M. Rehman, M. Tariq and S. M. Donkor, 1992. Effect of Physico-Chemical properties of soil on infiltration, Presented at the Semi- Annual Convention of Pakistan Society of Agricultural Engineers at Dean Hotel Peshawar, Pakistan on December 9, 1992.
25. Khan, M. J., 1996 "Effect of four different moisture stress levels on sunflower in Peshawar, Pakistan. .Presented at the International Conference on Irrigation and Drainage, held on April 21-26, 1996 at Slovenia.

26. Khan, M. J., T. Sarwar, N. Ahmad, And M. Tariq, 1992. "Soybean yield and water use response to different moisture stress and fertilizer level, proceeding of the International conference on Irrigation Drought Water Management, Bari, Italy.

27. Lu, J. Y., and M. J. Khan, 1991, " Movement of Sediment Transport in a parabolic flume with simulated rainfall" Proc. of the Fifth Federal Interagency Sedimentation Conference, Lasvagas, Nevada, U.S.A. Journal of HY/DiV/ASCE/Williamsburg, VA, U.S.A.

28. Lu, J. Y., W.H. Neibling, G. R. Foster, M. J. Khan, and S. J. McAfee, 1987. " Segregation of Sediment during Deposition" Proc. Conf. on Hydraulic Engineering Agriculture, Vol.VII, No. 6."