

A. Publications in Peer Reviewed Journals:

1. Zakariya, K.M, T. Sarwar, H. U. Farid, R. Albano, M. A. Inam, M. Shoaib, A. Ahmad, M. Ahmad. 2025. Land use land cover (LULC) mapping for assessment of urbanization impacts on cropping patterns and water availability in Multan, Pakistan. *Earth*. 6(3): 79.
2. Jehan, S., T. Sarwar, Naveedullah, S. K. Khattak and M. Jamal Khan. 2024. Climate Change and its Impact on Water Resources of Selected Areas in District Chitral with High Climatic Vulnerabilities. *Sarhad J. Agric.*, 40 (4): 1424-1435.
3. Javed, T., T. Sarwar, I. Ullah, S. Ahmad, and S. Rashid. 2019. Evaluation of groundwater quality in District Karak, Khyber Pakhtunkhwa, Pakistan. *Water Science*. 33 (1):1-9. DOI: 10.1080/11104929.2019.1626630
4. Razaq, A., M. J. Khan, T. Sarwar and M. J. Khan. 2019. Influence of deficit irrigation, sowing methods and mulching on yield components and yield of wheat in semiarid environment. *Pak. J. Bot.* 51(2): 553-560. DOI: 10.30848/PJB2019-2(12)
5. Khan, M., M. J. Khan, T. Sarwar, and M. J. Khan. 2018. Simulation of nitrate leaching under different irrigation deficit and nitrogen levels in tomato crop using HYDRUS 1-D. *Sarhad J. Agric.* 35(1): 126-133. <http://dx.doi.org/10.17582/journal.sja/2019/35.1.126.133>
6. Hashmi, Z. U., M. J. Khan, M. Akhtar, T. Sarwar and M. J. Khan. 2016. Enhancing phosphorus uptake and yield of wheat with phosphoric acid application in calcareous soil. *J. Sc. Food Agric.* DOI: 10.1002/jsfa.7921 (Impact Factor: 2.076)
7. Ullah, Sana, M. Farooq, T. Sarwar, M. J. Tareen, M. A. Wahid. 2016. Flood modeling and simulations using hydrodynamic model and ASTER DEM: A case study of Kalpani River. *Arabian J. Geosciences*. (DOI 10.1007/s12517-016-2457-z) (Impact Factor 1.224)
8. Rabnawaz, M. J. Khan, T. Sarwar and M. J. Khan. 2015. Comparative Study of Crop Water Productivity at Farm Level under Public and Civil Canal Irrigation Systems in Peshawar, Pakistan. *Sarhad J. Agric.* 31(3): 175-182. <http://dx.doi.org/10.17582/journal.sja/2015/31.3.175.182>
9. Azad, R. W. A., Sarwar, T. 2014. Effect of watercourse aging on conveyance efficiency and water productivity in District Muzafarabad, Azad Jammu and Kashmir. *Sarhad Journal of Agriculture*, 30(4): 466-471.
10. Razaq, A. M. J. Khan, T. Sarwar and M. J. Khan. 2015. Effect of sowing methods and mulching on weed density on wheat crop under deficit irrigation. *Pak. J. Weed Sci. Res.* 21 (2): 239-246.
11. Sarwar, T. and N. Muhammad. 2008. Effect of enhanced water allowance on the performance of tile drainage system at Shahbaz Ghari Pilot Project area of Swabi SCARP. *Sarhad Journal of Agriculture*. 24 (1): 59-67
12. S. M. Bilal and T. Sarwar. 2008. Effect of tube well drainage on water logging and salinity in Kafur Dheri Unit Peshawar. *Sarhad Journal of Agriculture*. 24 (1): 49-58
13. Sarwar, T., S. M. Bilal, M. J. Khan and J. Tariq and Naveedullah. 2007. Management of small-scale waterlogging through surface drain maintenance. *Sarhad Journal of Agriculture*. 23 (2): 400-405
14. M. J. Khan, T. Sarwar, A. Shahzadi, and A. Malik. 2007. Effect of different irrigation schedules on water use and yield of wheat. *Sarhad Journal of Agriculture*. 23 (4): 1055-1060

15. Zokaib, S. and T. Sarwar. 2006. Effect of land use on runoff and erosion at Hilkot watershed (Mansehra). *Journal of Engineering & Applied Sciences*. 25 (1): 77 – 94.
16. Zokaib, S., T. Sarwar and M. Jehangir. 2005. Study of stage-discharge relationship and stream erosion in sub-catchments of Hilkot watershed (Mansehra). *Journal of Engineering & Applied Sciences*. 24(1): 53–58.
17. Bilal, S. M. and T. Sarwar. 2005. Farmers perception about operation of irrigation and drainage systems and privatization of tube wells in Kafur Dheri Peshawar. *Sarhad Journal of Agriculture*. 21(1):83-88.
18. Zokaib, S., and T. Sarwar. 2004. Land use and local water harvesting practices at Hilkot watershed (Mansehra). *Sarhad Journal of Agriculture*. 20(3): 435-440.
19. Sarwar, T. 2003. Shallow water table depth and its effect on soil oxygen concentration and soybean yield: Lysimeter study. *Journal of Engineering and Applied Sciences*. 22(1): 11-19.
20. Ilyas, A., and T. Sarwar. 2003. Assessment of physico-chemical and biological quality of drinking water in the vicinity of Palosi drain Peshawar. *Pakistan Journal of Applied Sciences*. 3(1): 58-65
21. Ilyas, A., and T. Sarwar. 2003. Study of trace elements in drinking water in the vicinity of Palosi drain, Peshawar. *Pakistan Journal of Biological Sciences*. 6(1): 86-91.
22. Hussain, S. A., T. Sarwar, M. I. Lone, R. Roohi and F. S. Hamid. 2003. Effect of different soil moisture conservation practices on evapotranspiration and growth of young Tea plants. *Asian Journal of Plant Sciences*. 2(2): 188-191.
23. Sarwar, T. 2002. Physiological response of soybean to shallow water table depths. *Pakistan Journal of Biological Sciences*. 5 (12): 1300-1308.
24. Sarwar, T., A. Javed. and M. Tariq. 2002. Impact of Tile drainage on soil and water quality in Mardan SCARP area. *Asian Journal of Plant Sciences*. 1(4): 484-488.
25. Sarwar, T. F. A. Kiyani and M. J. Khan. 2001. On-Farm Irrigation Evaluation of Sugarcane Fields at Civil Canal in NWFP. *Sarhad Journal of Agriculture*. 17(2): 153 – 158.
26. Sarwar, T., M. Jehangir and M. J. Khan. 2001. Effect of watercourse maintenance and variable discharges on conveyance losses and water distribution. *Sarhad Journal of Agriculture*. 17(3): 388–394.
27. Sarwar, T., and M. J. Khan. 2001. Agricultural impact of SCARP projects in NWFP. *Sarhad Journal of Agriculture*. 17(4): 587 - 593.
28. 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*. 17(4): 595 – 600.
29. Hussain, S. A., M. I. Lone, T. Sarwar and F. S. Hamid. 2001. Farmers' perception about Tea cultivation in Tea growing areas of District Mansehra. *Pakistan Journal of Arid Agriculture*. 4(1-2):91-95
30. Ahmad, N, T. Sarwar and M. Ahmad. 1999. Evaluation of water management practices at three outlets of Kurvi Branch of Kabul River Canal System. *Sarhad Journal of Agriculture*. 15(4): 275-281.
31. Sarwar, T. and R. S. Kanwar. 1996. NO₃-N and metolachlor concentrations in the soil water as affected by water table depths. *Transactions of the ASAE*. 39(6): 2119-2129. (Impact Factor 0.895)

B. Publications in Workshop / Seminar Proceedings:

1. Sarwar, T., S. M. Bilal, M. J. Khan and J. A. Tariq. 2004. Management of small-scale water logging through surface drain maintenance. *Proceedings of the Third National Seminar on "Drainage in Pakistan"* held on June 7-8, 2004 at the NWFP Agricultural University Peshawar – Pakistan.
2. Khan, M.J., M.J. Khattak, T. Sarwar and J. A. Tariq. 2004. Effect of different management strategies on wheat yield under saline-sodic soil condition. *International Seminar on "Hydrosalinity Mitigation for Efficient Water Resources Management"* held on September 20 – 25, 2004. Centre of Excellence in Water Resources Engineering, Lahore – Pakistan.
3. M. J. Khan, Naveed Ullah, M. J. Khan, T. Sarwar and S. M. Bilal. 2004. Effect of different management strategies on Wheat yield under water logged soil conditions. *Proceedings of the Third National Seminar on "Drainage in Pakistan"* held on June 7-8, 2004 at the NWFP Agricultural University Peshawar – Pakistan.
4. Khan, M. J. and T. Sarwar. 2001. Effect of rainfall and irrigation on watertable depths and drainage coefficients in SCARP Mardan. *Proceedings of the 2nd National Seminar on Drainage in Pakistan*. April 18-19. Dept of Irrigation Drainage. University of Agriculture, Faisalabad, Pakistan.
5. Khan, M. J., H. M. Rust and T. Sarwar. 1997. Agricultural Impact assessment of subsurface tile drainage system of SCARP Mardan. In *"Water Management in N.W.F.P."* ed. D. H. M. Rust, E.J.V. Velde and H. Rehman. NWFP Agricultural University, Peshawar, Pakistan.
6. Halsema, G. E. van, T. Sarwar, and Z. Khan. 1997. Water supply and crop water requirements in selected units of Pabbi and Sheikh Yousaf Minors. In *"Water Management in N.W.F.P."* ed. D. H. M. Rust, E.J.V. Velde and H. Rehman. NWFP Agricultural University, Peshawar, Pakistan.
7. Khan, M. J., T. Sarwar, N. Ahmad and M. Tariq. 1992. Soybean yield and water use response to different moisture stress and fertilizer levels. *Proceeding of International Conference on "Supplementary Irrigation and Drought Water Management"*. Vol. 3 (Sept. 27 to Oct. 02 1992), Valenzano-Bari, Italy.

C. Technical Report:

1. Sarwar, T., S.I. Kazmi and Naveedullah. 2017. The Effect of Climate Change on Rainfall Pattern and Existing rainwater Management in Khyber Pakhtunkhwa. Published by Norwegian Church Aid, Pakistan in collaboration with Climate Change Center, The University of Agriculture, Peshawar, Pakistan.