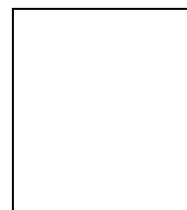


Prof. Dr. Dawood Jan
Dean
Faculty of Management and Computer Sciences (FMCS)
The University of Agriculture, Peshawar.



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EDUCATION:

PhD Agri Economics	2009	The University of Agriculture Peshawar / SIUC Illinois USA (Split PhD)	
M. Sc (Hon) Agri Economics	1997	The University of Agriculture Peshawar	3.86 (85.00%)
B. Sc (Hon) Agri Economics	1995	The University of Agriculture Peshawar	3.83 (81.50%)
F. Sc.	1990	Edwards College Peshawar	729 (67.00%)
SSC	1987	Peshawar Public School Peshawar	630 (74.00%)

CAREER SUMMARY:

Academic

- Professor Since 18th September 2017
- Associate Professor 29th Dec 2009 to 17th September 2017
- Assistant Professor 5th September 2009 to 28th December 2009
- Lecturer 1st September 1998 to 4th September 2009

HEC Approved Ph.D Supervisor Since 2014

Administration

- Dean Since January 2020
Faculty of Management and Computer Sciences
The University of Agriculture, Peshawar.
- Director Since July 25, 2014
Institute of Business and Management Sciences (IBMS).
The University of Agriculture, Peshawar.
- Chairman 14-11- 2011 to 31-12-2014
Department of Agricultural and Applied Economics,
The University of Agriculture, Peshawar.
- Director Campuses Since May 22, 2012
The University of Agriculture, Peshawar.
- Project Director 12-02-2009 to 21-05-2012
Amir Muhammad Khan Campus (AMKC) Mardan.
The University of Agriculture, Peshawar.

DISTINCTION:

- Stood First in M.Sc. (Hons) in the 1994-1996 session from the Department of Agricultural & Applied Economics, The University of Agriculture Peshawar.

NATIONAL RECOGNITION:

- Nominated as member *Technical Group on Poverty* by Deputy Chairman Planning Commission at the National Level.
- Member & Secretary of National Curriculum Revision Committee (NCRC) in the discipline of Agricultural Economics. HEC, Islamabad.

ADMINISTRATION AND MANAGEMENT EXPERIENCE – CONTRIBUTIONS:

Director IBMS

As Director supervised/contributed/facilitated in:

- Constitution of separate Board of Studies for Management Science and Computer Science/IT.
- Initiation of accreditation process of academic programs.
- Completed successfully the process for registration of the Institute with NBEAC and NCEAC of HEC.
- Conversion of one year contract policy into three years contract policy of the government for faculty and administrative staff.
- Creation of CP fund for faculty and administrative staff of the Institute.
- Creation of faculty positions in various cadres.
- Strengthened the academic portfolio of the Institute by extending the Tenure Track System (TTS) for induction of Ph.D faculty.
- Hired Consultant to study the feasibility of creation of faculty of management sciences along with service structure.
- Initiation of PhD study leave program for faculty members of IBMS.
- Establishment of new Conference Room equipped with laptops and associated accessories.
- Keeping in view the power outages, established computer lab equipped with laptops.
- Installation of LEDs, Multimedias and other teaching aids in computer labs and class rooms.
- Refurbishment of the computer labs, class rooms and offices.
- Strengthening of computer labs with installation of latest version of desktops computer systems.
- Retailored merit scholarship scheme offered by IBMS from its own resources to incentivize talent.
- Initiation of MS Agribusiness Management Degree Program. Approval granted by all relevant statutory bodies of the University. NOC granted by HEC in August, 2019.
- Initiation of following Degree Programs:
 - PhD Management Sciences
 - PhD Computer Science
 - MS Data Science
 - BS Bio-informatics(Approval granted by all relevant statutory bodies of the University)
- On the recommendation of Syndicate the Senate in its 6th meeting held on 14-03-2109 approved establishment of “Faculty of Management and Computer Sciences” as sixth Faculty of University.

Chairman Department of Agricultural and Applied Economics

As Chairman supervised/contributed/facilitated in:

- Renamed Department of Agricultural Economics as “Department of Agricultural and Applied Economics” after going through approvals from all relevant statutory bodies, keeping in view the market demand at National and International level.
- Established computer lab plus seminar room equipped with laptops and associated accessories.
- Advertisement of faculty positions.

- Being member of National Curriculum Revision Committee (NCRC) of HEC in the discipline of agricultural economics incorporated revised scheme of studies and courses.
- Completed process of accreditation of the Department with National Agricultural Education Accreditation Council (NAEAC).

Project Director/Director Mardan Campus

As Project Director/Director supervised/contributed/facilitated in:

- Founding Director of the Campus.
- Started regular classes from June 2009 within the premises of Regional Institute of Teachers Education (RITE) Mardan.
- Acquisition and possession of 2000 kanal of land for the campus in Mardan.
- Initiation and completion of Master Plan of the campus.
- Coordinated the process wherein the provincial government took responsibility of escalation of cost as part of the land acquisition process.
- Initiated process of accreditation with NAEAC.
- Creation of faculty and administrative positions.
- Induction of faculty from Lecturers to Professors through standard procedure.
- Secured funding from provincial government amounting:
 - Rs. 10.00 Million to kick start the academic activities at the campus.
 - Rs. 64.00 Million for cost of structures as part of land acquisition process.
 - Rs. 16.60 Million for purchase of transport and allied farm machinery and equipments.
 - Rs. 50.00 Million as grant in aid for strengthening of the academic and physical infrastructure of the Campus.
- Rs. 171.00 Million for civil work of construction of boundary wall of Bacha Khan Greater Campus that includes AMKC Mardan.
- Coordinated submission of PC-1 for establishment of campus to federal and provincial government.

PROJECTS/RESEARCH PROJECTS/ REPORTS:

1. As part of the wider study under the MoU signed between Khyber Pakhtunkhwa Agri. University Peshawar and Farm Forestry Project (2004-05),
 - a) Conducted a research study and submitted report on “Farming System: Karak, Haripur and Kurram”. The main objective of the study was to study the existing farming system in the target areas and how trees can effectively be incorporated in these farming systems keeping in view the farmers perceptions and the factors influencing farm forestry interventions.
 - b) Submitted report on review of earlier studies on farming system and farm-forestry.
2. Editor of Proceedings of Workshop “Emerging Challenges in Food Security and Open Market Economy” held on July 23-26, 2004 at Bara Gali Abbotabad, KHYBER PAKHTUNKHWA Pakistan.
3. “Study on impact of farm forestry interventions on owners and users of private lands in Farm Forestry Project Areas”. A report submitted to Swiss Agency for Development and Cooperation (SDC).
4. Conducted study for Water for Livelihood (W4L) Project in DIK and Karak (2013) and submitted report with the title “Benefit Cost Analysis of Irrigation Schemes in DIK and Karak”. As part of future planning process of the project, based on internal and external review, the study was designed with the purpose to quantify and present the cost effectiveness of the initiatives taken in the target areas.
5. Completed, as Co-PI, HEC funded NRPU Project (TRGP/412/2017-18) titled: “Sustainable Development Vulnerability Index; Multidimensional Micro-level Measurements of Sustainable Development Process in Slums and Rural Pakistan” worth Rs. 05 Million.

CONFERENCES/ TRAINING WORKSHOPS:

1. Training and Exposure visit on Disaster Risk Reduction in Action at Philippines and Thailand, December 14-22, 2014, Organized and funded by Inter-Cooperation (IC) Islamabad.
2. Attended 10 days Training Course on *Multi Dimensional Poverty Index (MPI)* from 7th to 18th April 2014 at Islamabad, delivered by Oxford Poverty and Human Development Initiative (OPHI) of Oxford University UK in collaboration with UNDP.
3. Organized two days International Training Course (Webinar) on *Applied Quantitative Techniques and Data Analysis for Researches Using SPSS and AMOS* held on 24-25 February 2012 in collaboration with Research Center for Training & Development.
4. “An Analysis of Poverty across Regions and Sectors of the Economy of Pakistan. Guest Speaker at Vandevveer Chair Speaker Series at Southern Illinois University Carbondale (SIUC) USA, Feb 8th 2008.
5. “An Analysis of Major Determinants of Poverty in Agriculture Sector in Pakistan”. Paper presented at the American Agricultural Economics Association Annual Meeting, Orlando, FL, July 27-29, 2008.
6. Organized Workshop on “Emerging Challenges in Food Security and Open Market Economy” held on July 23-26, 2004 at Bara Gali Abbotabad, Khyber Pakhtunkhwa Pakistan.
7. “WTO Agreements with Focus on Agriculture” lecturer delivered as a Resource Person on SDC Partners Day organized by SWISS Agency for Development and Cooperation (SDC), on Sept. 23, 2002, Islamabad.

MEMBER STATUTORY BODIES:

➤	Senate The University of Agriculture, Peshawar.	2012 - 2015
➤	Syndicate The University of Agriculture, Peshawar.	2006 - 2009
➤	Academic Council The University of Agriculture, Peshawar.	Since 2011
➤	Board of Faculty Faculty of Rural Social Sciences, The University of Agriculture, Peshawar.	Since 2011
➤	Board of Faculty Faculty of Management and Computer Sciences The University of Agriculture, Peshawar	Since 2019
➤	Board of Advanced Studies & Research The University of Agriculture, Peshawar.	2013 - 2017
➤	Finance and Planning Committee (F&PC) The University of Agriculture, Peshawar.	2011 - 2013 2018 - 2020
➤	Departmental Promotion & Appointment Committee The University of Agriculture, Peshawar.	2013 - 2017

➤	Grievances Committee The University of Agriculture, Peshawar.	Since 2016
➤	Convener, Board of Studies Management Sciences Section, IBMS, The University of Agriculture, Peshawar.	Since 2014
➤	Convener, Board of Studies Computer Science/IT Section, IBMS, The University of Agriculture, Peshawar.	Since 2014
➤	Convener, Board of Studies Dept. of Agricultural and Applied Economics, The University of Agriculture, Peshawar.	2011 - 2014
➤	Board of Studies Dept. of Agric. Extension, Education and Communication, The University of Agriculture, Peshawar.	2011 - 2014
➤	Board of Studies Dept. of Rural Sociology The University of Agriculture, Peshawar.	2015 - 2017
➤	University Disciplinary Committee (UDC) The University of Agriculture, Peshawar.	2015 - 2017 Since 2019

MEMBERSHIP OF OTHER ACADEMIC AND ADMINISTRATIVE BODIES:

➤	National Curriculum Revision Committee (NCRC) Higher Education Commission (HEC) Govt. of Pakistan.	Since 2010
➤	Sarhad Journal of Agriculture (SJA) (Editorial Board) The University of Agriculture, Peshawar.	2009 - 2012
➤	Unfair Means Cases Dealing Committee (UFM) The University of Agriculture, Peshawar.	Since 2017
➤	Convener, Pending Pension Cases Committee The University of Agriculture, Peshawar.	Since 2016
➤	Goods Procurement Committee (GPC) The University of Agriculture, Peshawar.	Since 2015
➤	Services Procurement Committee (SPC) The University of Agriculture, Peshawar.	Since 2015
➤	Works Procurement Committee (WPC) The University of Agriculture, Peshawar.	Since 2015
➤	Climate Change Center (CCC) Management Committee The University of Agriculture, Peshawar.	Since 2015
➤	Convener, Class-IV Grievances Committee The University of Agriculture, Peshawar.	Since 2015

➤	Tendering Opening Committee The University of Agriculture, Peshawar.	Since 2013
➤	M.Phil/Ph.D Thesis Reviewer for: i. The University of Agriculture, Peshawar. ii. Abdul Wali Khan University, Mardan. iii. University of Peshawar	

ADDITIONAL TASKS / RESPONSIBILITIES:

➤	Senior Warden Unit-A Hostels The University of Agriculture, Peshawar.	Since 2010
➤	Warden Unit-A Hostels The University of Agriculture, Peshawar.	2009 - 2010
➤	Assistant Warden Hostel 7 The University of Agriculture, Peshawar.	2000 - 2009
➤	Staff Proctor The University of Agriculture, Peshawar.	2005 - 2010

COURSES TAUGHT:

B.Sc.(Hons)	M.Sc.(Hons)	Ph.D.
Introduction to Economics Development Economics Macroeconomics Agribusiness Economics	Advanced Macroeconomics Research Methodology Mathematical Programming	Advanced Macroeconomics Research Methods Agri. Price Policy Analysis Advanced Microeconomics

LIST OF STUDENTS SUPERVISED:

Ph.D.

S. No.	Name of Student	Title	Completion Date
1	Tahira Sadaf	Pakistan's Cotton and Textiles Exports to European Union: Competition, Trade Barriers, Future Prospects and Outlook.	2014
2	Robina Karim	Implementation of WTO's Agreements in Pakistan: Present Status, Future Prospects and Implications for Pakistan's Economy.	2016
3	Farhana Gul	Estimation of Climate Change Impacts and Adaptation Benefits for Wheat Production in Khyber Pakhtunkhwa	2020

LIST OF STUDENTS SUPERVISED:

M.Sc.(Hons)

1	M. Fayyaz	Fertilizer demand estimation in district Swabi: A case study of Yar Hussain and Dagai villages.	2002
2	Badsha Hussain	Effect of short term credit advanced by Zari Taraqiati Bank Ltd. in enhancing crop productivity and income of growers: A case study of tehsil Kabal district Swat.	2003
3	Shoaib Saleem	Food consumption pattern and calories intake poverty in district Mansehra.	2005
4	Sofia	An analysis of food consumption pattern and basic food need poverty in Hayatabad township Peshawar.	2005
5	Nafees Ahmad	A analysis of food consumption pattern and food intake poverty in rural Peshawar	2007

6	M. Ali	An investigation into food consumption pattern of rural and urban areas of district Swat.	2008
7	Adeel Ahmad	Effect of Foreign Direct Investment on Economic Growth of Pakistan	2010
8	M. Nauman	Assessing the role of livestock in Household welfare in district Malakand.	2012
9	Sami ur Rahman	An Analysis of Food and Non-Food Consumption Pattern of Pakistan	2012
10	Urooj Shakoor	An Estimation of Expenditure and Price Elasticity of Fresh Vegetables	2014
11	Roena	An Estimation of Expenditure and Price Elasticities of Meat	2014
12	Waqar Ahmad	An Economic Analysis of Honey Production in District Nowshera	2014
13	Zakir Uddin	Estimation of Marketing Margins of Different Intermediaries in Marketing of Apple in District Chitral	2016

LIST OF PUBLICATIONS:

1. Haq, Z. U., D. Jan, A. Jan and M. Khan. (2002). An investigation into the factors affecting higher wheat production in 1999-2000: causes and implications. *Sarhad Journal of Agriculture* 18(3): 345-350.
2. Jan, D., M. Fayaz, A. Jan and G. Ali. (2004). Fertilizer demand estimation in district Sawabi. *The Journal of Humanities and Social Sciences* 12 (1 & 2): 137-140.
3. Fayaz, M., D. Jan, A. Jan and B. Hussain. (2006). Effects of short term credit advanced by ZTBL for enhancement of crop productivity and income of growers. *Journal of Agriculture and Biological Science* 1 (4): 15-18.
4. Jan, A., A. F. Chishti, D. Jan and M. Khan. (2008). Estimating consumers' response to quality: a case of Pakistan Fruits. *Sarhad Journal of Agriculture* 24 (1): 151-154.
5. Fayaz, M., D. Jan, A. Jan and G. Ali. (2008). Fertilizer consumption by farm size in district Sawabi. *Sarhad Journal of Agriculture* 24 (1): 207-209.
6. Jan, A., A. F. Chishti, D. Jan and M. Khan. (2008). Milk quality in Pakistan: do consumers care? *Sarhad Journal of Agriculture* 24 (2): 345-347.
7. Shah.S.M.A., H.U. Rehman, Z. Iqbal, F.M. Abbasi, Durrishahwar, A. Ali, M.Y. Khan, D. Jan. (2008). Genotype evaluation of sugarcane genotypes for ratooning ability. *Sarhad Journal of Agriculture*. 24 (2): 612-617.
8. Shah.S.M.A., A. Ahmad, H.U. Rehman, G. Woras, M.Y. Khan, D. Jan. (2008). Genotype evaluation of some flue-cured Virginia tobacco genotypes for yield and quality traits. *Sarhad Journal of Agriculture*. 24 (4): 607-611.
9. Jan. D., P.R.Eberle, A. Jan, G.Ali, M.Khan.(2009). Absolute poverty in Pakistan: Where are the poor concentrated? *Sarhad Journal of Agriculture*. 25 (2): 321-327.
10. Jan.A., D.Jan, G.Ali, M. Fayyaz, M.Khan. (2009). Consumer's response to milk quality: A comparison of urban and rural Pakistan. *Sarhad Journal of Agriculture*. 25 (2): 329-332.
11. Jan. D., M.Ali., A. Jan, S.M. Sohail, G.Ali, M.Fayyaz, and S.Sattar. (2009). Comparison of food consumption in rural and urban areas of district Swat. *Journal of Rural Development and Administration*. 40 (2).
12. Jan.A., A.Sadiqa, D.Jan, G.Ali, M.Fayyaz, M.Khan. (2009). Estimating the differences in

- profitability of selected vegetables: A dummy variable approach. *Sarhad Journal of Agriculture*. 25 (4):587-590
13. Hafeez. A., S.M.Sohial, F.R. Durrani, D.Jan, I. Ahmed, N.Chand. (2009). Effect of different types of locally available litter materials on the performance of broiler chicks. *Sarhad Journal of Agriculture*. 25 (4):581-586
 14. Zulfiqar. M., S.A.Arifullah, D.Khan, D.Jan, A.F.Chishti, R.Ahmad, I.Ahmad, N.Shah and Wasiullah (2009). Implications of Trade Liberalization on Economic Welfare of Producers and Consumers of Rapeseed in Pakistan. *Sarhad Journal of Agriculture*. 25(4): 591-599.
 15. Sohail. S.M., I.Ahmad, A. Hafeez, D.Jan, S.Ahmed, S.Khan, A.U.Rehman, A.Ejaz (2009). Genetic study of some reproductive traits of Jersey cattle under sub-tropical conditions. *Sarhad Journal of Agriculture*. 26 (1):87-91.
 16. Khan. A., A. Khan, Z.Hussain, D.Jan. (2010). Performance of wheat cultivars sown at different seeding rates under moisture-stress conditions. *Archives of Agronomy and Soil Science*. DOI: 10.1080/03650340902897641. 56(1) 99-105.
 17. Jan. M.T., M.J.Khan, A.Khan, M. Arif, Farhatullah, D.Jan, M.Saeed and M.Z.Afridi (2011). Improving Wheat Productivity through Source and Timing of Nitrogen Fertilization. *Pakistan Journal of Botany*. 43(2): 905-914.
 18. Pervaiz,U., D. Jan, M. Zafrullah M. Iqbal and R.Javed (2011). Disbursement of Agricultural Loans, Constraints and its Future Policy Implications. *Sarhad Journal of Agriculture*.27 (2): 323-328.
 19. Taiba, B., M. Khan., M. Nazir, M. Sajjad, D. Jan and A. Jan. (2011). Estimation of demand for processed fruit and Vegetables products in professor colony (Peshawar). *IJCRB* 3(8): 688-704.
 20. Nazir, M., D. Jan, M. Sajjad, A. Jan and G. Ali. (2011). Role of micro credit advanced by Dir Area Support Project in the development of agriculture. *IJCRB* 3(8): 705-717.
 21. Rehman. A., N.P.Khan, I. Khan, M. Nazir, M. Khan, D. Jan and A. Ali. (2011). Comparative advantage and policy analysis of wheat in district D.I.Khan of Khyber Pakhtunkhwa. *IJCRB* 3(8): 983-1008
 22. Ali. A., M. Nazir, M. Sajjad, D. Jan, A. Jan, M. Fayaz and A. Rahman. (2012). Economics of irrigation on sugarcane crop in Peshawar. *IJCRB* 3(9): 120-140.
 23. Khan, I., A. U. Jan, I. Khan, K. Ali, D. Jan, S. Ali and M. N. Khan.(2012). Wheat and berseem cultivation: A comparison of profitability in district Peshawar. *Sarhad Journal of Agriculture*. 28(1): 83-88
 24. Pervaiz,U., D. Jan, M. Zafrullah and A. Khan (2012). Women in Agricultural Decision Making: Pakistan's Experience. *Sarhad Journal of Agriculture*. 28(2): 361-364.
 25. Pervaiz. U., F. Khan, D. Jan, Z. Huma and M. Zafarullah. (2013). An analysis of sugarcane production with reference to extension services in union council Malakandher-Peshawar – Pakistan. *Sarhad Journal of Agriculture*. 29 (1): 145-150.
 26. Zulfiqar, M., D. Khan, D. Jan, A.F. Chishti and M. Khan. (2013). Development of supply and demand functions of potato crop. *Sarhad J. Agric*. 29(2): 273-278
 27. Saddozai, K. N., A. Saboor, M.A. Khan., D. Jan and G. Ali. (2013). Analyzing the impact of Farmer Field School on Technical Efficiency of Cotton Growers in Southern districts of Punjab-

28. Israr, M., N. Ahmad, D. Jan, T. A. Shah, M. Shafi, N. Khan (2013). Curricula Importance in Enhancing the Capabilities of Agriculture Extension Agents at the Field. *International Journal of Advanced Research in Science and Technology (IJARST)*. 3(2): 67-74.
29. Ali, G., S. M. A. Shah, D. Jan, A. Jan, M. Fayaz, I. Ullah and M. Z. Khan. (2013). Technical Efficiency of Sugarcane Production in District Dera Ismail Khan. *Sarhad J. Agric.* 29(4): 585-590.
30. Israr, M., H. Khan, D. Jan, N. Ahmad (2014). Livelihood Diversification: A Strategy for Rural Income Enhancement. *Journal of Finance and Economics*, 2 (5): 194-198
31. Israr, M., D. Jan, N. Ahmad, S. Ali, M. M. Shafi, F. Ali, M. Arshad (2014). Landmines in Western Pakistan; Effectiveness of Multi Sector Mine Action Project and Its Alleviation. *J. Asian Dev. Studies*, 3(4): 15-20.
32. Israr, M., D. Jan, N. Ahmad, S. Ali, M. Ibrahim, F. Ali (2014). Membership-Based Organizations of the Poor; New Emerging Trends for Development in Northern Pakistan. *J. Asian Dev. Studies*, 3(4): 64-71
33. Tahira, S., D. Jan, A. F. Chishti (2014). Pakistan's Textiles and Clothing Imports Demand in the EU Market: A Cointegration – ECM Analysis. *Sarhad J. Agric.* 30(2): 283-290.
34. Jan, A., D. Jan, Y. Hayat, A. Sadiqa, G. Ali, M. Fayyaz (2014). Logarithmic Transformation: A tool for Normalizing Residuals in Anova Models. *Sarhad J. Agric.* 30(3): 375-378.
35. Fayaz, M., A. Jan, D. Jan (2014). Quality Elasticity of Vegetables Consumption in Pakistan: A Comparison of Urban and Rural Households. *Sarhad J. Agric.* 30(4): 451-458.
36. Riaz, B., S. Ali and D. Jan. (2014). Acreage Response Analysis of Maize Growers in Khyber Pakhtunkhwa, Pakistan. *IJFAEC*. 2(3): 33-44
37. Israr, M., D. Jan, N. Ahmad, M. Rehman (2015). Does Maternal Health Targets is an Obstacle to Millennium Development Goals in Rural Pakistan. *American Journal of Public Health Research*, 3(3): 100-105.
38. Jadoon, M. A., M. Israr, D. Jan, N. Ahmad, S. M. Malik and J. K. Swati (2015). Effectiveness of Women Councilors in Local Government System. *J. Asian Dev. Studies* 4(4): 35-44.
39. Ali, A., M. A. Khan, A. Saleem, K. B. Marwat, A. U. Jan, D. Jan and S. Sattar (2016). Performance and Economics of Growing Maize under Organic and Inorganic Fertilization and Weed Management. *Pakistan Journal of Botany*. 48(1): 311-318.
40. Israr, M., N. Awan, D. Jan, N. Ahmad, S. Ahmad, (2016). Patients' Perception, Views and Satisfaction with Community Health Center Services at Mardan District of Khyber Pakhtunkhwa. *American Journal of Public Health Research*. 4(3): 79-87.
41. Israr, M., M. Faraz, D. Jan, N. Ahmad, S. Ahmad, (2016). Farming Community Perceptions about Climate Change in Khyber Pakhtunkhwa Pakistan. *World Journal of Agri. Research*. 4(3): 70-76
42. Karim, R., and D. Jan. (2016). The implementation of WTO and its impact on Pakistan external trade. *Sarhad Journal of Agriculture*, 32(4): 399-404.
43. Fayaz, M., A. Jan, D. Jan, G. Ali and Y. Hayat. (2016). Does the quantity and quality of cereal

respond to changes in income? Evidence from Pakistan. *Sarhad Journal of Agriculture*, 32(3): 177-183.

44. Jan, A.U., M. Fayaz, Y. Hayat, D. Jan and G. Ali. (2017). Demand for fruit quantity and quality in Pakistan: a comparison of urban and rural households. *Sarhad Journal of Agriculture*, 33(4): 647-652.
45. Pervaiz, U., A. Salam, D. Jan, A. Khan and M. Iqbal. (2018). Adoption Constraints of Improved Technologies Regarding Tomato Cultivation in District Mardan, KP. *Sarhad Journal of Agriculture* 34(2): 428-434.
46. Gul, F., D. Jan and M. Ashfaq. (2019). Assessing the impact of climate change adaptation strategies on poverty rates of wheat farmers in Khyber Pakhtunkhwa, Pakistan. *Sarhad Journal of Agriculture*, 35(2): 442-448.
47. Gul, F., D. Jan and M. Ashfaq. (2019). Assessing the socio-economic impact of climate change on wheat production in Khyber Pakhtunkhwa, Pakistan. *Journal of Environmental Science and Pollution Research*. DOI 10.1007/s11356-018-04109-7.
48. Gul, F., I. Ahmad, M. Ashfaq, D. Jan, S. Fahad, X. Li, D. Wang, M. Fahad, M. Fayyaz and S.A.Shah. (2020). Use of crop growth model to simulate the impact of climate change on yield of various wheat cultivars under different agro-environmental conditions in Khyber Pakhtunkhwa, Pakistan. *Arabian Journal of GeoSciences*. (2020) 13:12. DOI 10.1007/s12517-020-5118-1.

REFERENCES:

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