
Dr. Shah Alam Khan

**Professor and Chairman Department of Plant Protection
The University of Agriculture, Peshawar Khyber
Pakhtunkhwa**

Pakistan

Email: profkhansa69@aup.edu.pk

Tel: Cell No. 0335-9326237

Office No. 091-9221165



University Education and Additional Training

- Post Doc** : **2010-2011**
Institute : USDA sponsored project at K-STATE
UNIVERSITY USA
- Post Doc** : **2009-2010**
Institute : Sponsored (KSU-IIIE) NEW YORK at KANSAS
STATE UNIVERSITY MANHATON USA
- Post Doc** : **2008-2009**
Institute : Sponsored by HEC-PAKISTAN at KANSAS
STATE UNIVERSITY MANHATON
(ENTOMOLOGY) USA
- Ph.D.** **2004**
Major : Plant Protection
Institute : The University of Agriculture Peshawar Khyber-Pakhtunkhawa
- M.Sc. (Plant Protection) 1995**
Major : Plant Protection
Institute : The University of Agriculture Peshawar Khyber-Pakhtunkhawa
- B.Sc. (Hons Agriculture) 1993**
Institute : The University of Agriculture Peshawar Khyber-Pakhtunkhawa
- F.Sc** : **1988**
Institute : Govt. College Bannu

SSc : 1986
 Institute : Govt High School Domel Bannu

Teaching Experience

(Total Service: 26 Years; Post Ph.D. Teaching and Research Experience at University Level: 17 Years)

S. No.	Title	Institution	Period
1.	Lecturer	The University of Agriculture Peahawar	16-May-1996 to 31-Dec-2004
2.	Assistant Professor	The University of Agriculture Peahawar	01-Jan-2005 to 26-Oct-2009
3.	Associate Professor	The University of Agriculture Peahawar	26-Oct-2009 to 29-May-2012
4.	Professor	The University of Agriculture Peahawar	30-May-2012 to till date

Administrative Experience

S. No.	Institution	Title	Period
1.	Department of Plant Protection The University of Agriculture Peshawar	Chairman	June, 29 2020.
2.	The University of Agriculture Peshawar Directorate of Quality (DQA)	Director (Quality Assurance)	2018.
3.	The University of Agriculture Peshawar	Provost	2018
4.	Agriculture University Teacher Foundation (AUTF) <i>During the MD foundation raised fund for teachers 3.6 millions for teacher welfare.</i>	Managing Director	2013
5.	International Project “ Experience America AMG-KSU ” Funded by USAID-AED USA, Kansas State University Manhattan-USA	Assistant Coordinator	2009-10
6.	The University of Agriculture, Peshawar	Senate Member	2018-2019

7.	The University of Agriculture, Peshawar.	Syndicate Member	2010-2012
8.	The University of Agriculture, Peshawar	Deputy Provost	2006
9.	Foreign Faculty, Guest House and STRC Hostel. The University of Agriculture, Peshawar	Senior Warden	2011
10	The University of Agriculture, Peshawar	Warden Unit A Hostels.	1988
11	The University of Agriculture, Peshawar	Staff Proctor	

**Experience of working through participation in workshops,
seminars and conferences:**

I. International:

S.No.	Institution	Title	Period
1.	Department of Plant Protection, The University of Agriculture, Peshawar.	International Conference on 'Food Security Through Sustainable Plant Protection Strategies'	January 16-20, 2022
2.	British Council-HEC	First International workshop on agricultural research and methodology	April 6-8, 2005
3.	British Council-HEC	Second International on agricultural research and methodology	December 1-4, 2006.
4.	British Council-HEC	International workshop jointly on web-based tools for plant science research	April 16-19, 2007.
5.	Nevada-Reno USA	56th Annual ESA meeting	15-19 November 2008
6.	KSU Manhattan USA	Annual meeting of the Kansas Entomological Society of Central States	April,25 2009

7.	Plant Biotechnology Center Department of Plant Pathology KSU and Integrated Genomic Facility and Bioinformatics Center.	Spotted Microarray workshop	January 5-8 2009.
8.	Entomology Department Kansas State University Manhattan USA	Training on Electrical Penetration Graph Technique (EPG)	May, 30- to July 10 2010.

II. National Training and Workshops attended/participated

S.No.	Institution	Title	Period
	Department of Plant Protection UAP	International Conference on Food Security through Sustainable Plant Protection Strategies	January 16-20 2022.
1.	NVTTC ()	Qualification development committee (Competency Standards for pesticide and fertilizer technician)	7-11 Dec 2020
2.	University of Agriculture Peshawar	National Conference on climate change	October 18, 2018
3.	Nuclear Institute for Agriculture and Biology	Training course on quality control and quality assurance of pesticides in agriculture	July 13-24, 1998.
4.	AUTA and FARSA	Issues and challenges in agriculture Education Research and Environments in the next Millennium	25-29, 1999.
5.	IBGE-AUP NWFP	Biotechnological techniques for crop improvement	September 12-17, 2005.
6.	PARC, IPEP, and NARC Islamabad	public Sector professional and students in IPM research and development	May 22-27, 2006
7.	National Academy of Higher Education	Staff development Course	26 Feb –22 march 2007
8.	NAHE, Islamabad	PC-1 Development Swat	July 2007

9.	Pakistan Science foundation Islamabad	Project Formulation	2012
10.	Bahawalpur	Traning of Public Sector Professionels and Students in IPM Research and Development	2006

Technical proficiency

- Rearing of test insects: Capable of performing maintenance and multiplication of insect species needed for biological testing using artificial and natural sources of nutrition.
- Phenotypic screening: Screening of plant germplasms under greenhouse and field conditions for natural and artificial bombardment of challenging insects to identify the level of resistance offered by the host plants.
- Mechanism of resistance: Identifying the category of resistance associated with plant-arthropods interactions at various levels
- Toxicological tests: Designing and experimenting with toxicants against test insects, natural enemies and study their residual effects.
- Statistical ability: Capacity to design and layout experiments at laboratory, greenhouse and field conditions. Analysis of Variance testing, skills to operate statistical software programs like SAS.
- The University of Agriculture Peshawar Khyber-Pakhtunkhawa Computer skills: Thorough experience in preparing manuscripts, analyzing data, document preparation, presentation preparations using power point by MS office mode.

Grants, Awards and scholarships

- As a Principal investigator, on the HEC sponsored project Title: “Study on Cereal aphid identification and their impact on yield in wheat and maize crop in NWFP (Total budget: 20,0000.PKR)
- Doctoral Fellowship: HEC Fellowship (Based on the Academic Merit) awarded by HEC Pakistan for pursuing Ph.D programme (2002-2005).The University of Agriculture Peshawar Khyber-Pakhtunkhawa.
- HEC Postdoctoral Fellowship-2007 for perusing post Doctoral study sponsored by Govt of Pakistan.

- SRF fund from International Institute of Research New York USA \$ 45000 during 2009-2011.

Membership in Scientific Societies/ Organizations

- Life Fellow in Zoological Society of Pakistan
- Entomological Society of America (ESA USA)
- Member of editorial board of Sarhad Journal Agriculture 2016-2019
- Associate Auditor Sarhad Journal Agriculture
- Associate editor Jordan Journal of Biological Sciences (JJBS)

Ph.D. Scholars Supervised:

S. No	Name of Scholar	Year	Status	Degree Status
1.	Mr. Zafrullah	2016	Major Supervisor	Completed
2.	Mr. Noor Muhammad	2016	Major Supervisor	Completed
3.	Mr. Khwaja Junaid	2020	Major Supervisor	completed
4.	Mr. Syed Rizwan Shah	2020	Co-Supervisor	Thesis stage
5.	Mr. Sarir Ahmad	2020	Co-Supervisor	Completed
6.	Mr. Saeed Khan	2021	Major Supervisor	Synopsis
7.	Riaz ul Haq	2021	Co-Supervisor	Thesis stage
8.	Hina Nisar	2021	Major Supervisor	Synopsis
9.	Mr. M. Shehzad Khan	2022	Co-Supervisor	Synopsis
10	Mr. Imtiaz Khan	2022	Co-Supervisor	Synopsis

MS/M.Phil. Scholars Supervised:

S. No	Name of Scholar	Year	Status	Degree Status
1.	Mr. M. Naveed Shah	2008	Major Supervisor	Completed
2.	Mr. Qazi Jabir Alam	2009	Major Supervisor	Completed
3.	Mr. Nasir-ud-Din	2009	Major Supervisor	Completed
4.	Miss. Aneela Kanwal	2011	Major Supervisor	Completed

5.	Mr. Zafrullah	2012	Major Supervisor	Completed
6.	Mr. Muhammad Salman	2013	Major Supervisor	Completed
7.	Mr. Kamran Khan	2014	Major Supervisor	Completed
8.	Mr. Khwaja Junaid	2014	Major Supervisor	Completed
9.	Mr. Rizwan Ali Shah	2014	Major Supervisor	Completed
10.	Mr. Nasir Muhammad	2015	Major Supervisor	Completed
11.	Mr. Sohaib Durrani	2015	Major Supervisor	Completed
12.	Miss. Hina Nisar	2016	Major Supervisor	Completed
13.	Mr. Atif Ali	2016	Major Supervisor	Completed
14.	Mr. Sadar Quaid	2016	Major Supervisor	Completed
15.	Mr. Shehriyar Khan	2019	Major Supervisor	Completed
16.	Mr. Inzizam-UI-Haq	2020	Major Supervisor	Completed
17.	Miss. Sehrish Tariq	2021	Major Supervisor	Completed
18.	Mr. Ihsan-UI-Haq	2021	Major Supervisor	Completed
19.	Mr. Shah Rukh	2021	Major Supervisor	Completed
20.	Mr. Ubaid Hussain	2021	Major Supervisor	Completed
21.	Mr. Hamad Akhtar	2021	Major Supervisor	Completed
22.	Mr. Misbah-Ud-Din	2022	Major Supervisor	Completed
23.	Mr. Muhammad Malook	2022	Major Supervisor	Synopsis
24.	Miss. Amina Gul	2022	Major Supervisor	Completed
25.	Mr. Ijaz Ahmad	2022	Major Supervisor	Thesis Writing
26.	Mr. Ijaz Ahmad	2022	Major Supervisor	Synopsis
27.	Mr. Khadim Hussain	2022	Major Supervisor	Thesis
28.	Mr. Muhammad Javed	2022	Major Supervisor	Synopsis
29.	Mr. Muhammad Hussain	2022	Major Supervisor	Synopsis
30.	Mr. Bilal Khan	2022	Major Supervisor	Synopsis
31.	Miss. Ayesha Israr	2022	Major Supervisor	Completed

Research Publications:

Khawaja Junaid and Shah Alam Khan. (2022). Population Trend of Rice leaf folder, *Cnaphalocrocis medinalis* G. (Lepidoptera: Crambidae). Journal of Xi'an Shiyou University, Natural Science., pp 1701-1711, 2022

DOI: <http://xisdxjxsu.asia>

Misbah ud Din, Shah Alam Khan, Said Hussain Shah and Najeeb Ullah, (2022) Efficacy of different pesticides against Mustard aphid *Liphaphis erysimi* in Selected Mustard cultivars. Pakistan Journal of Agriculture Research 35(2):471-379.

DOI <http://dx.doi.org/10.17582/Journal.pjr/2022/35.2.371.379>

Muhammad, N and S, A, Khan. (2022). Screening of Selected Canola Genotypes against Mustard Aphid (*Lipaphis erysimi* (K.) Hemiptera: Aphididae) through Antixenosis and Antibiosis Assays. Pakistan J. Zool., pp 1-8, 2022. DOI:<https://dx.doi.org/10.17582/journal.pjz/20220418050415>

Muhammad, N and S, A, Khan. (2022). Screening of Selected Canola Cultivars for Yield and Tolerance against Mustard Aphid, *Lipaphis erysimi* Kalt. (Hemiptera: Aphididae). Sarhad Journal of Agriculture. 38, (2): 497-503.

Dawar. K., S. U. Rahman, S. Fahad, S. S. Alam, S. A. Khan, A. Dawar, U. Younis, S. Danish, R. Datta, and R. P. Dick. 2021. Influence of variable biochar concentration on yield-scaled nitrous oxide emissions, Wheat yield and nitrogen use efficiency. Scientific Reports. Manuscript id: 7d4cfeaa-d83f4ce8-ac14-c5042c1f01f4.

M. Irfan, M. Mudassir, M. J. Khan, K. M. Dawar, D. Muhammad, I. Ahmad Mian, W. Ali, S. Fahad, S. Saud, Z. Hayat, T. Nawaz, S. A. Khan, S. Alam, B. Ali, J. Banout, S. Ahmed, S. Mubeen, S. Danish, R. Datta, A. M. Elgorban & R. Dewil. (2021). Heavy metals immobilization and improvement in maize (*Zea mays*L.) growth amended with biochar and compost. Scientific Reports.

11:18416. <https://doi.org/10.1038/s41598-021-97525-8>

- Khan., Z, S. A. Khan, N. Khan and N. Muhammad. (2019). "Efficacy of Aqueous Plant Extracts and Pesticide Against Okra Fruit Borer in Commercial Okra Cultivars". *Acta Scientific Agriculture*. 3.12: 81-84.
- Nisar H, Khan SA, Khan Z, AUR Saljoqi, Hussain S and Muhammad N, 2018. Relative susceptibility of four wheat cultivars against angoumois grain moth *Sitotroga cerealella* (Olivier) (Lepidoptera: Gelechiidae). *Journal of Entomology and Zoology Studies* 2018; 6(3): 379-382.
- Muhammad. N and S. A. Khan. 2017. Categorization of commercial canola cultivars resistant to aphids (*L. Erysimi* k.) Through phenotypic characters. *Proc. Pakistan Congr. Zool.*, vol. 37, pp. 1-12
- Khan, Z., S. A. Khan, H. Khan, N. Khan, K. Junaid and I. Khan. (2017). Seven Local Commercial Wheat Cultivars Tested for Resistance against *Rhopalosiphum padi*L. in Pakistan. *Pakistan J. Zool.*, vol. 49(3), pp 793-799, 2017. DOI: <http://dx.doi.org/10.17582/journal.pjz/2017.49.3.793.799>
- Junaid. K., S.A.Khan I.Ullah, S.R.A.Shah and Z.Khan. 2016. Study on different Components of Resistance in Wheat Genotypes to Green Bug (*Schizaphis graminum*). *Pak. J. Zool.*, 48(4), pp. 981-987
- Qamar Z., M. Naeem, S. A. Khan and S. Ahmad. 2016. Effect of Insecticides on the Population of Aphids, Natural Enemies and Yield Components of Wheat. *Pak. J. Zool.*, 48(6), pp. 1839-1848
- Wahid F, M. Sharif, S. Steinkellner. M. A. Khan, K.B. Marwat And S. A. Khan. 2016. Inoculation Of *Arbuscular Mycorrhizal* Fungi And Phosphate pSolubilizing Bacteria In The Presence Of Rock Phosphate Improves Phosphorus Uptake And Growth Of Maize. *Pak. J. Bot.*, 48(2): 739-747
- Khan I., N. Qureshi, S. A. Khan, A. Ali, S. R. A. Shah and Z. Khan. and K. Junaid. 2016. Efficacy of Several Plant Extracts as Growth Inhibitors against Red Flour Beetle, *Tribolium, castaneum* Herbs (Coleoptra-*Tenebrionidae* *Acta Zool. Bulg.* 68 (3), 443-450
- Khan, M. A., F. Wahid, Umme-Kulsoom, K. B. Marwat, B. Gul, M. Inayatullah, A.M. Khattak and S.A. Khan.2015. Evaluating the threshold levels of *neslia*

apicul-ata in wheat and Its effects on crop yield losses in swat valley of Khyber Pakhtunkhwa. Pak. J. Bot., 47(SI): 87-91

- Khan S. A., J.C. Reese, C. Predeesh, M. Murugan And Y. Hayat. 2015. Categories Of Resistance In Wheat To Green Bug *Schizaphis,graminum* (Rondani) Through A Novel Technique Direct Current Electrical Penetration Graph (DC-EPG). Pak. J. Bot., 47(Si): 307-312
- Qamar Z., M. Naeem, S. Ahmad And S. A. Khan. 2015. Seedling Bulk Test (Mass Screening) Of Fifty Wheat Genotypes Against *Schizaphis graminum* (Rondani) (Aphididae: Hemiptera) J. Ent And Zoo. 3(6): 360-365
- Shah S. R. A., S. A. Khan, K. Junaid, S. Sattar, M. Zaman, N. Saleem And M. Adnan. 2015. Screening Of Mustard Genotypes For Antixenosis And Multiplication Against Mustard Aphid, *Lipaphis erysimi* (Kalt) (Aphididae: Homoptera). J. Ent And Zoo. 3(6): 84-87
- Shah S. R. A., S. A. Khan, A. U. R. Saljoqi, K. Junaid, I. Khan, M. Zaman, F. Said, M. Adnan And N. Saleem. 2015. Assessment Of The Varietal Preference And Resistance Against *Lipaphis erysimi* (K.) In Segregating Mustard Genotypes Under Agro-Ecological Conditions Of Peshawar, Pakistan. J. Ent And Zoo. 3 (5): 100-103
- Khan S. A., M. Marimuthu, C. Predeesh, Lina M. Aguirre-Rojas, John C. Reese And C. Michael Smith. 2015. Electrical Penetration Graph Recording Of Russian Wheat Aphid (Hemiptera: Aphididae) Feeding On Aphid-Resistant Wheat And Barley. J. Economic. Entomology.108 (5):2465-2470
- Qamar Z., S. I. Rondon, M. Naeem, S. A. Khan, A. Goyer, S. V. Vleet and M. K. Corp. 2015. Categorization of Putative Factors Against *Rhopalosiphum padi* (L.) (Heteroptera: Aphididae). J. Economic Entomology. 1–6
- Zahid, M., Salman M, A.Farid, S.A.Khan and K.Habib.2015. Control for Managing Peach Flat-Headed Borer, *Sphenoptera dadkhani* (Oben.) (Coleoptera: Buprestidae). Pakistan J. Zool., vol. 47(6), pp. 1771-1776.

- Zahid, M., M.Salman, S.A. Khan and I.Ullah. 2015. Surveillance and Control of Peach Flat-Headed Borer, *Sphenoptera Dadkhani* (Oben.) in Plum Orchards of Khyber Pakhtunkhwa, Pakistan SJA 31(1):30-36
- Arif M, M. T. Jan, I.A. Mian, S.A. Khan, P. Hollington And D. Harris,. 2014. Evaluating The Impact Of Osmoprining Varying With Polyethylene Glycol Concentrations And Durations On Soybean. Int. J. Of Agri & Bio. 16 (2): 359–364
- Kamran K., G. D. Khan, S. U. Din, S. A. Khan And W. Ullah. 2014. Evaluation Of Different Wheat Genotypes Against Rice Weevil (*Sitophilus oryzae* (L.) (Coleopteran: Curculionidae) J. Of Bio, Agric. And Healthcare. 4(8): 2224-2228
- Hafiz F. A., A. Bibi, M. Ahmad, M. Junaid, A. Ali, S. Hussain, S. A. Khan and S. Alam. 2014. Characterization Of The Causal Organism Of Blackleg And Soft Rot Of Potato, And Management Of The Disease With Balanced Fertilization. Pak. J. Bot., 46 (6): 2277-2284
- Hafiz F. A., M. Junaid, M. Ahmad, A. Bibi, A. Ali, S. Hussain, S. A. Khan And J. A. Shah. 2013. Molecular And Pathogenic Diversity Identified Among Isolates Of *Erwinia Carotovora* sub-Species *Atroseptica* Associated With Potato Blackleg And Soft Rot. Pak. J. Bot., 45(3): 1073-1078
- Predeesh C, J. C. Reese, S. A. Khan, D. Wang, W. Schapaugh, And L. R. Campbell. 2013. Feeding Behavior Comparison Of Soybean Aphid (Hemiptera: Aphididae) Biotypes On Different Soybean Genotypes. J. Economic. Entomology. 106 (5): 2234-2240
- N. Khan, Hashmatullah, K. Naveed, Z. Hussain and S. A. Khan. 2012. Assessment Of Allelopathic Effects Of *Parthenium hysterophorus* Plant Parts On Seed Germination And Seedling Growth Of Wheat (*Triticum estivum* L.). Pak. J. Weed Sci. Res. 18 (1): 39-50
- N. Khan, N. W. Khan, S. A. Khan, M. A. Khan And K. B. Marwat. 2012. Combined Effect Of Nitrogen Fertilizers And Herbicides Upon Maize Production In Peshawar. J. Of Animal And Plant. Sci, 22 (2): Page: 12-17
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- M. Murugan; Khan S.A; S. Starkey and CM Smith.2010. Variation of resistance in Barley against biotype of the Russian Wheat Aphid, *Diuraphis noxia* biotypes. J. Economic Entomology: 103 (3) 938-948.
- S. A. Khan, M.Murugan, S. Starkey, A. Manley and CM Smith. (2009). Categories and inheritance of resistance in wheat against Russian Wheat Aphid, *Diuraphis noxia*". Journal of Economic Entomology. 102 (4) 1654-1662.
- Khan, S.A. N. Hussain, Farmanullah and Hayat, Y. 2007. Screening of wheat genotypes for resistance against cereal aphid.Sarhad Journal of Agriculture. 23 (2):427-434.
- Khan, S.A., N. Hussain, Farmanullah, Hayat, Y.and Shahid,S. 2007.Natural enemies of cereal aphids in NWFP of Pakistan. Sarhad Journal of Agriculture. 23 (2):435-439.
- Khan,S.A. ,Farmanullah, N. Hussain, AUR. Saljoki, Hayat, Y.and Shahid, S. 2006. Distribution pattern of cereal aphids in wheat growing areas of the NWFP Pakistan.Sarhad Journal of Agriculture. 22 (4):656-659.
- Saljoki, AUR, M,Khan, S. A. Khan and Said, R. 2007. Effect of six plant extracts on Rice weevil *Sitophilus oryzae* in stored wheat grain. Pakistan journal of biological sciences. 1(2):1-5.
- Saljoki, AUR, Said, R. N Husain and S. A. Khan. 2007. Insect pest of canola crop other than aphid) SJA. 1(2):1-5.
- Alam S.S. Mushraf, M., S. A. Khan. A.Usman Mia I. A. and Naveedullah. 2007. Variation in garlic varieties for reaction to natural infection of *Puccinia porri wint* and *Alternaria porri* clif at Swabi, NWFP. Sarhad Journal of Agriculture. 23 (1):149-152.
- Musharaf. A.,Alam S. S., S. A. Khan, A.Usman and David, C 2007. Export of the HR eliciting proteins Harpines of the maize pathogen *Erwinia stewarti* species-specific but is independent of the growth temperature. Pakistan of Biological science 10 (1):117-121

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- Mansoor, K.K. A Q.Mugha, Liaqat, A. Jamal S. A. Khan. and M .Z. Khan.2007.Economic evaluation of deep tillage practices under maize fallow rotation.Sarhad Journal of Agriculture. 23 (2):365-370.
- Naimatullah, K. H.Ullah, K. Usman, S.A. Khan. 2007. Growth and yield related characteristics of improved commercial cotton cultivars. Sarhad Journal of Agriculture. 23 (2):261-263.
- Naimatullah, K.,H.Ullah, K. Usman, S.A. Khan. 2007. Performance of selected cotton cultivars for yield and fiber related parameters. Sarhad Journal of Agriculture. 23 (2): 257-259.
- Khan S.A. N. Hussain, Saljoki, AUR and Hayat Y. 2006. Resistance of maize variety 'Jalal' against corn leaf aphid *R.maidis*, its impacts on density and effect on yield and yield components. Journal of Biological Sciences.1 (2):30-34.
- Khan,N., G.Hassan, K.Naveed, S. A. Khan and Z.Hanif.2006. Effect of Maize (*zeamays*) planting densities on various growth parameters of Barnyard grass (*Echinochlocrus-galli*) and maize. Int. J. Biol. Biotech. 14(1):123-128,
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- Anis, UR. S. A. Khan, R. Shah. W. Hassan and A.Rauf. 2000. Efficacy of an insect growth inhibitor (IGI) against *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctudae) on potato in Nowshera, NWFP. Sarhad Journal of Agriculture. 16 (1):81-83.
- Ali, A. Farmanullah and S. A. Khan.1999. Efficacy of various insecticides and trap heights in Methyl Eugenol baited traps against fruit flies. Sarhad Journal of Agriculture. 15 (6): 590-594.
- Khan, S. A. N. Hussain, I. A. Khan, M. Khan and M Iqbal. 1998. Study on weed control in maize crop. Sarhad Journal of Agriculture. 14 (6):581-586.

Referees:

1. Engineer Dr.Sadiq Ali Department of Mechanical Engineering Univeristy of Engineering and Technology Peshawar.

Tel : 0333-6899907

Email: sadiqali@uetpeshawer.edu.pk

3. Prof. Dr.Yusaf Hayat Head of Statistics Maths and Computer Science KPK Agricultural University, Peshawar Pakistan.

Ph : +92-91-9221294

Fax : +92-91-9221262 E-mail

: yhayat@aup.edu.pk

yousafhayat@gmail.com

2. Prof. Dr. C. M. Smith

Profesor of Entomology

Department of Entomology

Kansas State University

123 Waters Hall,ManhattanKS66506

Ph: +01-785-532-4700

Fax : +01-785-532-6232

Cell: +01-785-317-4403

E-mail csmith@ksu.edu

4.Dr.Tomas W Phillips

Department Head

Department of Entomology

Kansas StateUniversity

123 Waters Hall,ManhattanKS66506

Ph : 785-532-6154

Fax : 785-532-6232

E-mail : twp1@ksu.edu