

Ahmad Waqas

Soil Scientist | Plant Physiologist | Sustainable Agriculture Specialist

📍 Multan ✉️ ahmedwaqasuaf@gmail.com ☎️ +92 309 7700546 🌐 ahmad-waqas-phd

Professional Summary

Experienced Soil Scientist with a PhD in Soil Science and 11+ years of experience in Pakistan's cotton sector. Focused on regenerative agriculture, soil health, and sustainable value chain development. Skilled in managing donor-funded projects, developing MEL systems, and collaborating with public and private sector stakeholders to co-create climate-smart agricultural solutions and strengthen climate resilience.

Skills

- Field and laboratory research on soil fertility, nutrient management, and sustainable cotton production.
- Collecting and analyzing soil, crop, and environmental data.
- Developing agricultural practices for improving soil health, pest management, and water-use efficiency.
- Advising farmers, field facilitators, and cotton producer units on best agronomic practices aligned with sustainable agriculture standards.
- Providing technical consultancy and training to strengthen capacity in cotton production and soil conservation.

Education

Ph.D Soil Science	University of Agriculture, Faisalabad	2012 – 2018
M.Sc. (Hons) Agriculture-Soil Science	University of Agriculture, Faisalabad	2010 – 2012
B.Sc. (Hons) Agriculture-Soil Science	Islamia University of Bahawalpur	2006 – 2010

Experience

Pakistan Central Cotton Committee (PCCC)- CCRI Multan, Scientific Officer (Plant Physiology/Soil Chemistry) May 2014 – Present
Multan, Pakistan

- Boosted seed cotton yield by up to 15% by experimenting with 30+ NPK combinations across the agro-ecological zones of Sindh and Punjab to optimize fertilization strategies.
- Recommended heat and drought-tolerant cotton strains after screening cultivars under stress, resulting in 20% higher farmer adoption.
- Delivered climate-smart advisory services to farmers and the provincial Agri-department for promoting sustainable cotton production practices.

Projects/Consultancies

Project Manager, Better Cotton Project (€90,000/yr) CCRI, Multan Sept 2024 – May 2025
Multan, Pakistan

- Increased adoption of sustainable cotton practices by 35%, impacting 14,000 hectares and improving soil health for 8000+ farmers.
- Designed and executed 50+ livelihood initiatives, resulting in a 20% increase in farmer income and a roadmap for social protection strategies across 3 Cotton Producing Units.
- Facilitated over 200 training workshops, which equipped farmers with sustainable practices and achieved a 25% improvement in cotton yield.

Research Articles/Publications

1. [Assessing The Effectiveness of Farmyard Manure, Poultry Manure And Nitrogen Application For Wheat Productivity Under Various Tillage Systems](#). MZ Ayyoub, A Paracha, A Shehzadi, M Faizan, S Mehmood, M Mehmood, Journal of Positive School Psychology 7 (1).
2. [Varietal Performance of Maize \(Zea mays L.\) Strains Under Saline Conditions](#). MF Ijaz, F Ijaz, MI Latif, M Nadeem, A Niaz. Journal of Applied Research in Plant Sciences 4 (02), 582-592
3. [Response of soil microbial biomass and enzymatic activity in municipal solid waste compost treated soil](#). A Waqas, G Murtaza, M Naveed, SMA Basra
4. [Metal-Microbe Interaction in Municipal Solid Waste Compost Amended Soil and its Effect on Maize \(Zea May L.\) Growth](#). A Waqas. University of Agriculture, Faisalabad.
5. [Comparative Effect of Different NPK Fertilizers on Growth of Cotton \(Gossypium hirsutum L.\) in Alkaline Calcareous Soil](#). Ahmad Waqas, Saba Tabasum, Beenish Butt, Muhammad Jamil, Fariha Amin Journal of Plant and Environment 5 (01), 51-55
6. [National Coordinated Varietal Trials \(NCVT\) for Cotton in Pakistan During 2020](#). A Waqas, S Ali, Z Ahsan. International Journal of Cotton Research and Technology 3 (1), 37-69
7. [Drought tolerance screening of Maize Inbred Lines using tolerance Indices](#)
M Qamar, A Manzoor, S Tabasum, MZ Ayyoub, T Sanaullah, A Waqas

Certifications / Trainings

Better Cotton Program Partner Workshop	Penang, Malaysia (Feb, 2025)
Change Management in the Public Sector	Islamabad, Pakistan (June 2024)
Google Project Management Certificate	Google/Coursera (October 2021)
Industrial Parks & Development under CPEC	Beijing, China (Oct, 2017)

Languages

English	Professional- C1 (British Council)
Urdu	Native
Arabic	Working Knowledge

References

1. **Dr. Yusuf Zafar T.I.**
Vice President, PCCC & Ex-Chairman, Pakistan Agricultural Research Council (PARC)
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2. **Eric Trachtenberg**
Executive Director, International Cotton Advisory Committee (**ICAC**)
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3. **Khushbakht Jamal**
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