

Brief Curriculum Vitae

Name : Sayed Khalil KHATTARI
Date of Birth : 1947
Nationality : Jordanian
Health Limitation : None
Contact Address: Dept. of Land, Water and Environment
Faculty of Agriculture
University of Jordan (U of J)
Amman- Jordan
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Academic Qualifications:

Ph.D. (1973-1977): Texas A & M University – U.S.A

Soil Fertility and Plant Nutrition. W. B. Anderson-Advisor.

M.Sc. (1970-1973): Texas A & M University _ U.S.A

Soil Chemistry and Fertility. L. R. Hossner-Advisor.

B. Sc. (1965-1969): Cairo University - Agronomy

Language Ability:

<u>Language</u> :	<u>Reading</u>	<u>Writing</u>	<u>Speaking</u>
Arabic:	Excellent	Excellent	Excellent
English:	Excellent	Excellent	Excellent

Present position and Academic Rank :

Professor (since 1992): Agriculture Resources and Environment
Management (Soil Sciences)
Dept . of Land , water and Environment .
University Of Jordan

Date of Appointment:

April 1, 1978 - University of Jordan.

Major interests and Activities:

Planning and capacity building in teaching graduate and undergraduate levels, Training, research and consultation on:

- Monitoring of land quality and pollutants of different sources
- management of agriculture chemical (fertilizers and amendments) inputs
- Environment impact Assessment (EIA) for land and water resources
- Use of organics and organic waste materials in agriculture
- Use of treated wastewater and land quality assessment
- Rehabilitation of Traditional farming as to European good agriculture practice (GAP) requirements

Administration Experience:

Dean : Faculty of Agriculture - (Aug. 1995-Aug. 1997).

Mu'tah University, Karark – Jordan.

Vice-Dean of Graduate Deanship for scientific faculties /

University of Jordan (1999 -2000)

Director of the Environmental Science and Management Program.

Deanship of graduate studies (1999- 2000)

Vice-Dean: Deanship of Student's Affairs : University of Jordan.

(Sept. 1993-Aug. 1995).

Assistant Dean For Research: Faculty of Agriculture - (Sept.

1990- Sept. 1993) University of Jordan.

Dept. Head: Dept. of Agricultural Resources and Environment ,

(Formerly, Soils and Irrigation) July 1984-July 1986).

Faculty of Agriculture - University of Jordan.

Dept. Head; Water Resources and Environmental Management.

(2001- 2002).

Director and Assistant Dean :Agricultural Research Station.

Colleges of Agriculture / Al-Balqa' Applied University

Some relevant major activities:

- 1. Team Leader for the project “Integrated Environmental Management of Agricultural Production Inputs in the Jordan Valley”. Center for Strategic Studies / University of Jordan.(1994-2000)**

The project is mainly concerned with the application of the

European standards on agricultural products according to the good agriculture practice "GAP". Proper use of fertilizers, and other chemicals inputs and practices were implemented and monitored, assessment of pesticides residues and heavy metals in areas irrigated with treated wastewater. During the course of work, several vegetable crops were successfully grown including Okra, Pease ,Tomato ,Pepper an Beans .

2. **Teem leader for the study "Impact of draught on the range land ,forage and livestock in Jordan"**
3. **member of the "National Committee for the Environmental Impact Assessment of the Gulf War on Agriculture resources in Jordan Submitted to the United Nations (UNCC).**
4. **Member of the " National Advisory Committee for Water and Agricultural Environment Monitoring and Sustainability". (2000).**
5. **Project Coordinator and senior researcher - "Environmental Impact Assessment of Cultivation Practices in Jordan Valley" Environment Unit - Center for Strategic Studies - University of Jordan (1994-1999).**
6. **Member of the "Technical Committee - Agriculture and Water Sector" - Higher Council for Science and Technology Amman - Jordan. (1990 -1995). Responsibilities included:**
 - *Setting the policy of science and technology (S & T) related to water and agriculture sector in Jordan.*
 - *Forming task forces for studying the different aspects of water and agriculture problems.*
 - *Evaluation and assessment of research and studies supported by the council.*

7. Consultant for "Jordan - Kuwait Co. for Agriculture and Food

Products "Liquid Fertilizer Manufacturing" (1987-1990).

Responsibilities included:

- *Formulating all fertilizers grade needed for different crops at different growth stages.*
- *Designing fertilization programs for different existing crops Based on the known scientific bases.*
- *Capacity building for Ag. Engineers to serve as extension agents in the field.*

8. Member of the task force for finalizing the science and technology policy of water and agriculture / National Center for Agricultural Research and Technology Transfer. (NCARTT).

9. Member of the directive technical committee of " Jordan Badia Research and Development Program " (July 1990 - 1997). This team served as counterpart to the British Partners with different disciplines. Duties included Identifying research priorities, planning and following-up the implemented research activities relevant to human and natural resources development.

10. Assistant Dean for research - Faculty of Agriculture (Sept.

1990-Sept. 1993). Responsibilities included :

- *Chairing the major research committee in charge of reviewing and approving research projects submitted by faculty members and graduate students.*
- *Setting the research plan for the faculty, with other team member.*
- *Coordinating between the Faculty of Agriculture and different parties concerned with agricultural research in Jordan.*

11. Chairman and member of the " Research Committee " in the Dept. of Agricultural Resources & Environment.

12. Member of the Research Council - " Deanship of Scientific Research " - University of Jordan. (1990-1994). Council responsibilities included, *financing, approving, and follow-up research activities of the different faculty members in the University.*

13. Member of the National task force for preparing agricultural policy (Rainfed agriculture) for Jordan, in collaboration with American consultant company, financed by the World Bank.

14. Member of the " Coordinating team for research strategy and Mid-term plan for the " National Center for Agriculture Research and Technology Transfer " (NCARTT). Jordan, in Collaboration with international agencies.

15. Member of referees committee for Al-Hijjawi award of excellence in agricultural research. (1994 & 2000).

16. Committee member of Fertilizer standardization and quality control at the Ministry of Industry and Ministry of Agriculture. (1985-1991), (1999-2000).

Consultation Activities:

Many consultations on local and regional level including Arab Organization for Agricultural Development, in subject's related to land resource management, environmental problems, and fertilizers industry

- 1. Member of study team for "production of potato tubers project in Disi". The Egyptian – Jordanian company.**
- 2. Member of study team for "Cereal Production Under Central pivots in Southern region of Jordan".**
- 3. Consultations for Fertilizers Production – Arab Potash Company**
- 4. Member of consultation team by Arab Organization for Agriculture**

Development (AOAD) ,for studying the vegetable and lawn seed production in Saudi Arabia 1984.

Awards, Fellowships, and Advanced training:

- **Distinguished Researcher for the year 2011- 2012 . University of Jordan.**
- **Teaching and Research Assistantships during the graduate study at Texas A & M University.**
- **Research Fellowship by DAAD (Summer 2003) to work on Environmental quality of soils and crops in the Jordan Valley. Work was carried out at Hohenheim University- Stuttgart - Germany**
- **Fulbright Scholars award for Research (1989), Spent at Washington State University - Dept. of Agronomy and Soils. Pullman, WA/USA.**
- **Deutcher Akademischer Austansh Dient (DAAD) Fellowship (1983); Spent at Bonn University - West Germany. Studying Soil Environment Pollution with heavy metals.**
- **International training course on the use of N-15 in soils and plant nutrition (1979); Leibzig - Federal Republic of Germany (formerly).**
- **International training course on the use of isotopes and radiation techniques in studies of soils and plant relationship (1984). Seibersdorf - Austria.**
- **Participant in the Capacity Building Program on Environmentally Sustainable Development in the Middle East and North Africa. Economical Development Institute (EDI) of the World Bank. Washington, D. C/USA (1995).**

Research Activities Include:

- Heavy metals in soils and vegetable crops in the Jordan Valley.
- Rehabilitation of the range land in the southern Badia - of Jordan, (1997-2001) in collaboration with the Higher Council for Science and Technology and Muta'h University.
- Fertility and nutrition of irrigated and rain-fed fruit and vegetable crops, using regular and isotopes techniques. In collaboration with ICARDA.
- Improvement of cereal production through soil moisture conservation and increasing fertilizer use efficiency using nuclear techniques.
- Environmental studies on the reuse of treated wastewater & sewage sludge in agriculture, and soil pollution with heavy metals.
- Research and Coordinator of the " Environment-Socioeconomic project in the Jordan Valley Conducted by the Center for Strategic Studies- University of Jordan.

Special Skills :

Handling and use of radioactive and stable isotopes in agriculture research.

Publications:

1. Khattari, S.K., L.R. Hossner, and C.D. Welch. 1975. Rice Growth and Available Phosphorus Relationships on Selected Gulf Coast Soils of Texas. Texas Exp. St.Bul.3326C.
2. Kharabsheh, N. and S.K.Khattari. 1982. Transformation of Urea, and Ammonium Sulfate in some Jordan Soils. Dirasat IX (1): 145-153.
3. Kharabsheh, N. and S.K.Khattari, 1983. Ammonia Loss From Surface Applied Ammonium Sulfate and Urea in some Jordan Soils. Dirasat X (1): 143-151.
4. Khattari, S.K. 1984. Response of two Durum Wheat Varieties to Different Nitrogen Rates from three Sources in Two Soils from Jordan. Dirasat XI (7):79-89.
5. Anderson, W.B. and S.K.Khattari,1984.Iron Uptake by Plants and Deficiency Correction from an Irradiated Fe Fertilizer Source. Jour. Plant Nutrition. 7 (1-5), 319-328.
6. Khattari, S.K. 1984. Production of Vegetables and Lawn Seeds in Different Areas in Saudi Arabia: Soils and Water. Arab Organization for Agriculture Development Publisher.(in Arabic).
7. Khattari, S.K. 1985. Transformation of Ammonium Sulfate and Urea in Relation to Manure, Salt, and Active Calcium Carbonate Levels in Soils. Dirasat XII (4) 33-43.
8. Khattari, S.K.1985. Response of six Wheat Varieties to Different Nitrogen Rates. Dirasat XII (6) 59-66.
9. Khattari S.K. and A.Tell.1985. Effect of Nitrogen Fertilizer Rates on Ten Barley Varieties under Rainfed Conditions. Dirasat VII (12):75-89. (In Arabic).
10. Khattari, S.K. and W.B. Anderson. 1986. Iron Uptake by Sorghum Plants Partitioned Between Applied 59-Fe and Indigenous Fe from Three Soil Types. Jour. Plant Nutrition. 9 (3-7), 947-958.
- 11.Khattari, S.K. 1986. Heavy Metals in Soils of Zarqa River Catchment, Lead, Cadmium, and Nickel, Dirasat XIII (2):25-38.
12. Khattari, S.K. 1988. Present and Future of Wastewater Reuse in Jordan. In, Treatment and Reuse of Wastewater, FAO, Betterworths (ed.).London.
- 13.Khattari, S.K., and K. Jamjoum. 1988. Concentration of Nutrients and Heavy Metals in Soils and Corn Plants Irrigated with Wastewater. Dirasat 15(11):29-44. (in Arabic).
14. Khattari S.K., A.Tell. 1989. Response of Different Genotypes of Barley to Nitrogen Fertilization in Arid Regions. Emirates Jour. Of Agric. Sci. 1:31-43.(in Arabic).
15. Tell A. and S.K.Khattari.1989.Response of Durum Wheat Varieties to Phosphate Fertilizer Under Rainfed Conditions. Mesopotamia. Jour. Of Agric. 21(4): 209-221.

16. Khattari, S.K. and Others. 1989. Effect of Different P Level of the Production of four Wheat Varieties at Mushaggar area in Jordan (250-350 mm Rainfall). Emirates Jour. Of Agric. Sci. 1:15-29. (In Arabic).
17. Khattari, S.K. and Others. 1989. Treated Wastewater Reuse in Agriculture. I. Hussein Medical Center Project. Water Research and Study Center-University of Jordan. Vol. 12:1-50.
18. Khattari, S.K. and Others, 1989. Treated Wastewater Reuse Agriculture II. Queen Alia International Airport Project. Water Research and Study Center. University of Jordan. Vol.
19. Mohsen N., S.K. Khattari, and N. Battikhi. 1989. Effect of Sewage Sludge on corn Yield, Water Consumption and Some Soil Physical Properties .Dirasat. 16 (9) 71-87.
20. Jamjoum, K. and S.K. Khattari. 1989. Effect of Different Sewage Sludge Rates on Yield and Element Content in Corn Plants. Emirates Jour. Of Agric. Sci. Vol.2 (in Arabic).
21. Khattari, S.K. 1990. Heavy Metals in Soils of the Jordan Valley. (in Arabic) Dirasat Vol.17B, No.3, P 35-48.
22. Qoronfeleh, M. S.K. Khattari, A.Tell.1990. Citrus Genotype Pot Size, and Fertilization Effect on the Growth of Different Root Stocks.(in Arabic). Dirasat Vol. 18B, No.2, P 7-27.
23. Khattari, S.K., and A.Tell.1990. Effect of P fertilizer Placement on Barley under Dryland Farming Condition in Jordan. Dirasat Vol. 18B, No.2, P45-53.
24. Khattari, S.K. and A.Tell.1991. Genotype- Location Interaction Effect on P Fertilization of Triticum Durum under Rainfed Conditions. Dirasat, Vol.18B. No.3, P 90-99.
25. Khattari, S.K. and F.Shatat.1994. Effect of Fe and Zn Source, Method of Application, and Rates on Grapevine Yield under Irrigation. For Publication (Dirasat).
26. Khattari, S.K. and A. Tell. 1991. Critical Levels of NaHCO₃ Extractable P to Wheat and Barley under Different Soil Water Levels in three Soil Types. Dirasat Vol.20B, No.3, P7-20.
27. Khattari, S.K. 1989. Soil Sampling for Analysis and Fertilizer Recommendations (in Arabic). Ext.Bul.No. 1/64, University of Jordan.
28. Khattari, S.K. 1989. Plant Sampling for Nutrient Deficiency Determination (in Arabic). Ext.Bul.5/64, University of Jordan.
29. Khattari, S.K.1990. Mixing Compatibility of Leaf Fertilizers and Pest Control Chemicals. (in Arabic). Ext.Bul.No.3/64, University of Jordan.
30. Khattari, S.K. and Others. 1989. Agriculture Agenda for the Different Crops in Jordan (in Arabic). University of Jordan.

31. **Khattari, S.K.** 1991. Intensive Use of Fertilizers under Protected Agriculture in Jordan and its Impact on the Environment (in Arabic). Presented in the Regional Conference on Fertilizer Use and its Impact on Environment. Cairo. Dec.1991.
32. Qasem, J.R., and S.K.**Khattari**, 1993. Competition between Weeds and their Associated Vegetables Crops. *Dirasat*, Vol.20B, No.4, P.18-32.
33. **Khattari, S.K.**, and F. Shatat. 1993. Yield and Quality of Vitis Vinefera L.cv. Salti as Affected by Nitrogen Rates and time of Application. *Dirasat*. Vol.20B, No.1, P.72-79. 34.
34. attar, B., and **S.Khattari**.1995. The Relationship between Levels of Micro Nutrients in Soils and Plants and the Soil Properties in the Jordan Valley. *Dirasat* 22 (3).
35. **Khattari, S.K.** 1999.Phosphorus Levels in Soils of Different Vegetable Crops in Jordan Valley .In the International conference “Plant Nutrient Management under Pressurized Irrigation Systems in the Mediterranean Region”. Amman, 25 - 27 April 1999.
36. **Khattari, S. K.**; Shatat, Fahmi A., 1996: Response of apple cv. Starkrimson to foliar application of zinc sulfate and zinc chelate. *Dirasat Agricultural Sciences*. 23(3): 171-176.
37. **Khattari, S.K.** and F.Shatat. 1996. Effect of Ammonium sulfate Rate, Time, and Method of Application on Yield and Fruit Quality of the Apple cv. Starkrimson. : *Dirasat, Agricultural Sciences*, 1996, Vol.23 (2): 84 – 88.
38. Deek, I.M, A. M. Battikhi and S.K. **Khattari**.1997.Effect of Irrigation and N-Fertilization (Fertigation) Scheduling on Tomato in the Jordan Valley. *Jour. Agronomy and Crop Science* Vol. 178, 4:193–259.
39. **Khattari, S.** and A. Tell, 1988. Response of wheat varieties to P fertilizers under a wide range of rainfall. In: P.W. Unger, T.V. Sneed, W.R. Jordan and R. Jensen (Eds.). *Challenges in Dryland Agriculture*. Proc. Int. Conf. Dryland Farming, pp. 429–31.
40. Battikhi, A., B.Snobar and S.K.**Khattari**.2011.Effect of Tillage Systems and Wheat Residue Management Methods under Different Crop Rotations on Soil Moisture Storage and Crop Yield in 3 Rainfed Areas of Jordan. *Jordan Jour. Agricultural Sciences*. Vol .7.
41. **Khattari, S.K.**, B.Snobar, A. Battikhi, M.Pala, and N.Katkhuda.2011. Wheat, Lentil and Vetch Yield in Three Crop Rotations under Different Tillage, Crop Residue Management and Nitrogen Fertilization in Mushagar. *Jordan Jour. Agricultural Sciences* .Vol.
42. Snobar, B., S.K.**Khattari**, A.Battikhi, M.Pala, and N.Katkhuda.2011. Effect of Tillage, Nitrogen Fertilization and Crop Residue

- Management on Wheat and Lentil yield Under Three Course Rotation in Semi –Arid Regions of Jordan. Jordan Jour. Agricultural.
43. Qasem J.R. and S.K. Khattari .1993. Competition on nutrients between weeds and their associated vegetable crops. Dirasat Series B Pure and Applied Sciences 20, 18-32.
 44. Haddadin, M.S., S.K.Khattari, D.Caretto and R.K.Robenson.2001.Potential intake of selenium by the inhabitants of different regions in Jordan .Nutrition & Food Science 31(5):230-233.
 45. Haddadin, M.S., S. Khattari, D. Caretto and R.K.Robinson.2002.Potential Intake of Lithium by the Inhabitants of Different Regions in Jordan. Pakistan Journal of Nutrition 1 (1): 39-40.
 46. Abdulhadi, N.K., W.I. Abu-Gharbieh and S. Khattari. 1997. Effect of organic amendments, soil solarization, and their interaction on soilborne microorganisms and yield of plastic house cucumber. Second International Conference on Soil Solarization and.
 47. Abdelrazzag, A., S. Abbadi and S.Khattari.2002 Rangeland Reserves Effect on Rehabilitation and Herbage Production in Southern Jordan. Mu tah Lil-buhuth wad-irasat. Vol.17.No.2: 11-18.
 48. Khattari, S.K. 1993. RPG member- Rainfed Agriculture. Agricultural Policy Analysis. Phase I. Jordan Agricultural Sector Review: September 1993, Technical Report No. 132, Volume VI.
 49. Mustafa, M., A. Hatough, S.Khattari, K. Mashaal and A. Saadeh.1997.Environmental Behavior of Crop protection Chemicals. Proceedings of International Symposium by I A E A and FAO. Vienna.
 50. Al-Hafeth, M., S.Khattari and A.Abu-Awwad.2009.Options for reusing Treated Wastewater in Jordan Valley –King Abdullah Canal. Pp.664-683. in Water a; Values and Rights .ed. C.Messerschmit, L.El-Jazairi, and A. Al Haj Dauod .Palestine Academy Press.

Academic Activities

1. Member of the " National Committee for the Environmental Impact Assessment of the Gulf War on Agriculture environment (UNCC) (at present).

2. Member of the " National Advisory Committee for Water and Agricultural Environment Monitoring and Sustainability "(2000).
3. Project Coordinator and senior researcher - "Environmental Impact Assessment of Cultivation Practices in Jordan Valley " Environment Unit - Center for Strategic Studies - University of Jordan (1994-1999).
4. Member of the "Technical Committee - Agriculture and Water Sector" - Higher Council for Science and Technology (1990 - 1995). Amman - Jordan. Responsibilities included.
5. Consultant for " Jordan - Kuwait Co. for Agriculture and Food Products " Liquid Fertilizer Manufacturing " (1987-1990).
6. Member of the task force for finalizing the science and technology policy of water and agriculture / National Center for Agricultural Research and Technology Transfer. (NCARTT).
7. Member of the directive technical committee of " Jordan Badia Research and Development Program " (July 1990 - 1997).
8. Assistant Dean for research - Faculty of Agriculture (Sept. 1990-Sept. 1993).
9. Chairman of the " Research Committee " in the Dept. of Agricultural Resources & Environment.
10. Member of the Research Council - " Deanship of Scientific Research " - University of Jordan. (1990-1994).
11. Member of the task force (3 members) for preparing agricultural policy (Rained agriculture) for Jordan.
12. Member of the " Coordinating team for research strategy and midterm plan for the " National Center for Agriculture Research and Technology Transfer " (NCARTT). Jordan, in Collaboration with international agencies.
13. Member of referees committee for Al-Hijjawi award of excellence in agricultural research. (1994 & 2000).
14. Committee member of Fertilizer standardization and quality control at the Ministry of Industry and Ministry of Agriculture. (1985-1991), (1999-2000).
15. Leader of the research and consultation team for the project "Integrated Management of Agricultural Production Inputs and environment in the Jordan Valley". Implemented by the Center for Strategic Studies / University of Jordan.
16. Team Leader for the project "Integrated Environmental Management.
17. Team leader for the study "Impact of draught on the range land.
18. member of the "National Committee for the Environmental Impact.
19. Member of the " National Advisory Committee for Water and ..
20. Project Coordinator and senior researcher - "Environmental
21. Member of the "Technical Committee Agriculture and Water.
22. Member of the task force for finalizing the science and.

23. Member of the directive technical committee of " Jordan Badia.
24. Assistant Dean for research - Faculty of Agriculture (Sept.
25. Chairman and member of the " Research Committee " in the.
26. Member of the Research Council - " Deanship of Scientific Research " - University of Jordan. (1990-1994).
27. Member of the National task force for preparing.
28. Member of the " Coordinating team for research strategy and.
29. Member of referees committee for Al-Hijjawi award of.
30. Committee member of Fertilizer standardization and quality.
31. Jordan Environment Society (JES) - (Active member and chairman of the Scientific Committee.
32. Jordan Society for Desertification Prevention and Badia Development.
33. IUCN Co- Chair National Committee.
34. IUCN Commission on Environmental, Economic and Social Policy (CEESP).

Books :

- Soils Science (Translation),
- Soil Fertility,
- Plant Nutrition,
- Soil Conservation (in Arabic).

Areas of Teaching and training :

- Environment ,Land management ,Soil Sciences ,and soil fertility and fertilizers.
- Supervising graduate Students.

Undergraduate Courses:

- Environmental Soil Fertility and Fertilizers.
- Plant Nutrition.
- Soil Science.

Graduate Courses :

Soil Fertility

Soil-Plant-Water Environmental Analysis

NGOs membership

Jordan Environment Society – JES

Chairman ,Scientific Committee

P.O.Box 922821 - Amman- 11192-Jordan.

Jordan Society for Desertification Prevention and Badia

Development. (Active member). P. O. Box 9109994-Amman

11191- Jordan.