

Prof. Wael Abdel Kawy

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Cairo University, Giza, Egypt

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EDUCATION

Ph. D. 2002, Soil Science, Cairo University, Egypt.
M. Sc. 1998, Soil Science, Cairo University, Egypt.
B. Sc. 1993, Soil Science (Excellent with Honors), Cairo University, Egypt.

Personal Data

Year of Birth : 1972, in Cairo.
Citizenship : Egyptian.
Title : Professor of Soil and Water Sciences.
Major Field : Soil Pedology, Remote Sensing and GIS.

Major Professional Posts Held

2012 – Present Professor, Department of Soil Science, Faculty of Agriculture, Cairo University.
2007- 2012 Assoc. Professor, Department of Soil Science, Faculty of Agriculture, Cairo University.
2002– 2007 Lecturer, Department of Soil Science, Faculty of Agriculture, Cairo University.

HONORS/AWARDS

2012 Cairo University International Publication Awards.
2013 Cairo University International Publication Awards.
2014 Cairo University International Publication Awards.

TECHNICAL SKILLS AND EXPERTISE

3. Writing proposal and reports, and management of research projects.
4. Good experience in curriculum development and outcome assessment.
5. Consultant of many national and international agencies in soil science field.

RESEARCH ACTIVITY

- Consultant of many national and international Projects in soil science field.
- Principal investigator of many national and international projects in soil science field.
- Supervisor of M. Sc. and Ph. D. students.

Research Experience

Soil Morphology and Classification.
Land Resources Assessment, Evaluation and Conservation.
Land Resource Management
Soil Morphology, Soil Mineralogy, Soil Chemistry.
Soil Erosion and Watershed Management.
Dry Land Agriculture.
Remote Sensing.
Geographic Information Systems.

TEACHING EXPERIENCE

General Soil Characteristics	Soil as a Medium for Plant Growth
Land Reclamation	Soil Genesis, Morphology and Classification
Soil Survey	Soil Chemistry
Soil Conservation	Soil Evaluation
Soils of Egypt	Water Chemistry
Arid Lands	Soils of Tropical and Subtropical Regions
Soil Mineralogy	Modelling and Simulation of Soil System
Soil, Water and Plant Analyses	Geographic Information System (GIS)
Remote Sensing	Advanced Pedology
Soil Micromorphology	Advanced Soil Chemistry

MEMBERSHIP IN PROFESSIONAL SOCIETIES

1. Country representatives for Egypt in the International Societies in soil science field.
2. Egyptian Society of Soil Science (ESSS).
3. the Organizing Committee Member for International conference on Geology during June 22-23, 2015 Florida, USA. Geology-2015 is basing on the theme- "New Concepts and Discoveries in Geology".

Administrative Positions in international journals

Associate Editor of the Arabian Journal of Geoscience.

Published By: Springer.

Impact Factor: 1.141.

<http://www.springer.com/earth+sciences+and+geography/journal/12517?detailsPage=editorialBoard>

Editor of Journal of Paddy and Water Environment.

Published By: Springer.

Impact Factor: 1.47.

<https://www.springer.com/life+sciences/agriculture/journal/10333?detailsPage=editorialBoard>

Membership as a reviewer in the Editorial board of the following international and national Journals:

- 1-Global Advanced Research Journal of Geography and Regional Planning.
- 2-African Journal of Agricultural Research.
- 3-Archives of Agronomy and Soil Science Journal.
- 4- International Journal of Agricultural Sciences.
- 5- Journals of Agriculture and Biological Sciences.
- 6- Journal of Advanced Research.

- 7-Journal of Pedosphere.
- 8-African Journal of Environmental Science and Technology.
- 9- Journal of Arid Land Research and Management.
- 10-International Research Journal of Agricultural Science and Soil Science.
- 11-Herald Journal of Agricultural and Food Science Research.
- 12-Basic Research Journal of Agricultural Science.
- 13- Herald Journal of Geography and Regional Planning.
- 14- Basic Research Journal of Education Research and Review.
- 15- Arabian Journal of Geoscience.
- 16-Egyptian Journal of Remote Sensing.
- 17-Open Journal of Soil Science.
- 18-Journal of Paddy and Water Environment.
- 19-Advanced research in metrological science.
- 20-Journal of Geophysics & Remote Sensing .
- 21-Journal of geology and geosciences.
- 22-Journal of Geoinformatics and Geostatistics
- 23-Austin Journal of Hydrology.
- 24-Egyptian journal of soil science.
- 25-International Research Journal of Geology and Mining .
- 26-peak journal of agricultural science.
- 27-Journal of Agricultural and Crop Research.
- 28- Journal of Earth Science and Climatic Change.
- 29-European Journal of Soil Science .
- 30-International Greener Journals.
- 31-Journal of Climatology & Weather Forecasting.
- 32-Herald Journal of Environmental and Health Science.

- 33- Journal of Biophysical Chemistry.
- 34-Journal of Basic & Applied Sciences.
- 35-International Journal of Plant & Soil Science.
- 37-Journal of Chinese Soil and Water Conservation.
- 38-Journal of Geography, Environment and Earth Science.
- 39- Journal of Remote Sensing & GIS.
- 40-International Journal of Advanced Remote Sensing and GIS.
- 41- Journal of Environmental Studies.
- 42- Aquademia: Water, Environment and Technology.
- 43- African Journal of Agricultural Science and Technology.
- 44- "Current Agriculture Research Journal.
- 45-Remote Sensing ISSN:2315-4632 .
- 46=International Journal of Research in Environmental Science.

PUBLICATIONS

- 1- Abdel Kawy, W.A.(2005)
“ Land Resource and Water Qualities of North Husseniya Extension for Agricultural Development , Egypt.” Egypt.J.Soil Sci. 45, No. 1, PP. 59-71.
- 2- Abdel Kawy, W.A. (2005)
“ Land Suitability Scale in Terms of Actual and Potential Suitability and its Applications for the Recently Reclaimed Area , Egypt.” Egypt.J. Soil Sci. 45, No.1, PP 73-92.
- 3- Abdel Kawy, W.A. (2005)
“Impact of Soil Degradtion On Land Qualities of Some Areas of El- Qaluibiea Governorate- Egypt.” Egypt.J.Soil Sci. 45, No.4, PP. 401-419.
- 4- Abdel Kawy, W.A. and El- Kilani, R.M.M. (2006)
“ Soil mapping as a Base to survey the Heavy Metals Content of Bahr El- Bakar Areas, East Delta, Egypt.” Egypt.J. Soil Sci. 46,No.1, PP.29-45.
- 5- Abdel Kawy, W.A. and Ali , R.R. (2006)
“ Soil Mapping as a Base for Optimum Landuse and Crop Water Requirements in El – Nubariya Area, West of Nile Delta , Egypt.” Egypt.J. Soil Sci.46, No.1,PP.47-67.
- 6 -Ali , R.R. and Abdel Kawy, W.A. (2007)
“ Remote Sensing and GIS to Assess The Soil Suitability for Crops in North Saini , Egypt.” Egypt.J. Remote Sensing & Space Sci, V.10, PP, 87-106.

- 7- Abdel Kawy, W.A. and Ali , R.R. (2007)
“Agricultural Sustainability in Some Areas North Nile Delta , Egypt.” Egypt.J. Soil Sci. 47, No.1,PP.53-67.
- 8- Ali , R.R. and Abdel Kawy, W.A. and Abdel Rahman, M.A. (2007)
“ Quantitative Assessment of Soil Degradation in Cultivated Areas in El – Sharkeia Governorate, Egypt.” Egypt. J. Remote Sensing & Space Sci., V. 10 , PP, 107-118.
- 9- Abdel Kawy, W.A. and Ali , R.R. (2007)
“Assesing the Agricultural Potentiality of Some Soil in Darb El- Arbaien Area, Western Desert, Egypt.” Egypt.J. Soil Sci. 46, No.3,PP.255-268.
- 10-El- Kilani, R.M.M. and Abdel Kawy, W.A. (2008)
“ Soil Enrichment with heavy metals as affected by the re-use of drainage water in Eastern Delta and Sinai ” Egypt.J. Soil Sci. 48, No.2, PP.119-141.
- 11-Abdel Kawy, W.A. and El- Nahry, A.H (2008)
“Using thematic maps as a base for crop water requirements of some areas in Siwa oasis, western desert , Egypt” Egypt.J. Soil Sci. 48, No.2, PP.183-200.
- 12-Darwish,K.M. and Abdel Kawy, W.A. (2008)
“Quantitive Assessment of Soil Degradation in some Areas North Nile Delta, Egypt” INTERNATIONAL JOURNAL OF GEOLOGY, Issue 2, Volume 2, PP.17-22.
- 13- Abdel Kawy, W.A. and M.A.EL Nady (2009)
" Soil Erosion Assessment Using Revised Universal Soil Loss Equation for Selective Dry Valleys In the Eastern Desert of Egypt" Australian Journal of Basic and Applied Sciences, 3(2): 836-843.
- 14- Abdel Kawy, W.A. and Belal, A.A. (2009)
"Impact of Soil Degradation on Land Qualities of Some Cultivated Areas at East Nile Delta -Egypt" Australian Journal of Basic and Applied Sciences, 3(3): 2054-2063.
- 15-Shahin,R.R., El-Naggar,A.M. and Abdel Kawy, W.A. (2009)
“An Approach To Describe Similarities Among Specific Soil Sites Of Egypt Using Cluster Variable Analysis” 4 th Conference on recent technologies in Agriculture, 2009, article No.44, PP.408-420.
- 16-Abdel Kawy, W.A. and Belal, A.A. (2011)
“GIS to Assess the Environmental Sensitivity for Desertification in Soil Adjacent to El-Manzala Lake, East of Nile Delta, Egypt” American-Eurasian J. Agric. & Environ. Sci., 10 (5): 844-856.
- 17-Abdel Kawy, W.A. and Belal, A.A. (2011)
“Soil resilience mapping in selective wetlands, West Suez Canal, Egypt” The Egyptian Journal of Remote Sensing and Space Sciences (2011) 14, 99–112.
- 18-Abdel Kawy, W.A. (2012)
“Use of spatial analyses techniques to suggested irrigation scheduling in Wadi El Natrun Depression, Egypt” Arabian Journal of Geosciences, Arab J Geosci (2012) 5:1199–1207
DOI 10.1007/s12517-010-0262-7.
- 19-Abdel Kawy, W.A. and Belal, A.A. (2012)
“Spatial analysis techniques to survey the heavy metals content of the cultivated land in El-Fayoum depression, Egypt” Arabian Journal of Geosciences, Arab J Geosci (2012) 5:1247–1258
DOI 10.1007/s12517-011-0312-9.
- 20-Ali,R.R. and Abdel Kawy, W.A. (2012)

“Detecting Soil Productivity Changes and Degradation Processes in the Irrigated Agriculture East of the Nile Delta, Egypt” *International Journal of Environmental Sciences* Vol.1 No.1. 2012. 11-18.

21-Abdel Kawy, W.A. and Ali,R.R. (2012)

“Assessment of soil degradation and resilience at northeast Nile Delta, Egypt: The impact on soil productivity” *The Egyptian Journal of Remote Sensing and Space Sciences* (2012) 15, 19-30 DOI 10.1016/j.ejrs.2012.01.001.

22-Abdel Kawy, W.A., Belal,A.A. and Darwish,K.M. (2012)

“Requirements in selective wetland areas West Suez Canal, Egypt Crop water” *Journal of Agricultural Extension and Rural Development* Vol. 4(1), pp. 011-018.

23-Abdel Kawy, W.A. and Belal, A.A. (2013)

“Use of satellite data and GIS for soil mapping and monitoring soil productivity of the cultivated land in El-Fayoum depression, Egypt” *Arabian Journal of Geosciences, Arab J Geosci* (2013) 6:723–732 DOI 10.1007/s12517-011-0371-y.

24-Abdel Kawy, W.A. (2013)

“Using GIS modeling to assess the agricultural sustainability in Kafr El-Sheikh governorate, Nile Delta, Egypt” *Arabian Journal of Geosciences, Arab J Geosci* (2013) 6:733–747 DOI 10.1007/s12517-011-0377-5.

25-El- Nahry, A.H. and Abdel Kawy, W.A. (2013)

“Sustainable land use management on the coastal zone of the Nile Delta, Egypt” *Journal of Land Use Science*, (2013) 8-1:85–103 DOI 10.1080/1747423x.2011.620994.

26- Abdel Kawy, W.A. and Abou El-Magd,I.H. (2013)

“Use of satellite data and GIS for assessing the agricultural potentiality of the soils South Farafra Oasis, Western Desert, Egypt” *Arabian Journal of Geosciences, Arab J Geosci* (2013) 6:2299–2311 DOI 10.1007/s12517-012-0518-5.

27-Abdel Kawy, W.A. and Abou El-Magd,I.H. (2013)

“Assessing crop water requirements on the bases of land suitability of the soils South El Farafra Oasis, Western Desert, Egypt” *Arabian Journal of Geosciences, Arab J Geosci* (2013) 6:2313–2328 DOI 10.1007/s12517-012-0519-4.

28-Ali,R.R. and Abdel Kawy, W.A. (2013)

“Land degradation risk assessment of El Fayoum depression, Egypt ” *Arabian Journal of Geosciences, Arab J Geosci* (2013) 6:2767–2776 DOI 10.1007/s12517-012-0524-7.

29- Abdel Kawy, W.A. and Darwish,K.M. (2013)

“Assessment of optimum land use and water requirements for agricultural purpose in some soils South Paris Oasis, Western Desert, Egypt” *Arabian Journal of Geosciences*, DOI 10.1007/s12517-013-1054-7.

30- Abdel Kawy, W.A. and Darwish,K.M. (2014)

“Sustainable multivariate analysis for land use management in El-Sharkiya, Egypt” *Arabian Journal of Geosciences, Arab J Geosci* (2014) 7:475–487 DOI 10.1007/s12517-012-0758-4

31- Darwish,K.M. and Abdel Kawy, W.A. (2014)

“Land suitability decision support for assessing land use changes in areas west of Nile Delta, Egypt” *Arabian Journal of Geosciences, Arab J Geosci* (2014) 7:865–875 DOI 10.1007/s12517-012-0757-5

32-A .A. Abdel Hamid, W .A. Abdel Kawy, R .R .Ali and R .A. Ibrahim (2014)

“Study of land resources of some areas at Helwan Governorate” *International Journal of Environmental Sciences* Vol. 3 No.1. 2014. Pp. 27-35

- 33- Aqrawi , P. M , A.A . Abdel Hady, W.A. Abdel Kawy and A. El-Nahry (2014)
“Assessment of Land Degradation in Wadi El Natrun area, Western Desert,Egypt ” Journal of Applied GIS Vol. 2 No.2. 2014. Pp. 21-30.
- 34- C. T. Jamil, A. Abdel Hamid, W. A. Abdel Kawy and A. H. El-Nahry (2014)
“Land Resources Assessment of Wadi El Farigh Area,Western Desert, Egypt
” Geoscience Journal. Vol. 1 No.4. 2014. Pp. 41-52.
- 35- M. M. Makawy, A. Abdel Hamid, W. A. Abdel Kawy and R .R .Ali (2014)
“Study the Soils of El Gabal El Asfar Area Which Irrigated by Sewage Sludge And Evaluated” Open Journal of El soil science Vol. 3 No.1. 2014. Pp. 10-24.
- 36- Kh.M. Darwish, W.A.M. Abdel Kawy & R. Zölitz (2016)
“Estimating the Rainfall Erosivity for Management Planning in the Eastern Desert, Egypt”
Geocarto International, DOI:10.1080/10106049.2015.1120352
- 37-W. A. M. Abdel Kawy and Kh. M. Darwish (2019)
“ Assessment of land degradation and implications on agricultural land in Qalyubia Governorate, Egypt ” Bulletin of the National Research Centre (2019) 43:70
- 38- W.A.Abdel Kawy et al (2020)
"SUSTAINABILITY OF OLD CULTIVATED SOILS IN EL-FAYOUM GOVERNORATE, EGYPT" Plant Archives Vol. 20, Supplement 1, 2020 pp. 1469-1476