

PROCEEDINGS OF V. INTERNATIONAL AGRICULTURAL, BIOLOGICAL, LIFE SCIENCE CONFERENCE AGBIOL 2023

18-20 SEPTEMBER 2023

EDIRNE, TURKEY

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Organized by
Trakya University

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WELCOME NOTES

You are welcome to our V. AGBIOL Conference that is organized by Trakya University. The aim of our conference is to present scientific subjects of a broad interest to the scientific community, by providing an opportunity to present their work as oral or poster presentations that can be of great value for global science arena. Our goal was to bring three communities, namely science, research and private investment together in a friendly environment of Edirne, Turkey in order to share their interests and ideas and to get benefit from the interaction with each other.

In September 2018, we organized the first AGBIOL Conference with more than 700 scientists and researchers from all over the world with over 800 scientific papers. Due to COVID-19 situation, II. AGBIOL 2020 has organized fully on-line event which was one of the biggest online conferences in recent years in the world with 499 papers and 1133 authors with 333 oral and 166 e-poster presentations from 55 countries. Due to COVID-19 situation, AGBIOL 2021 was organized online again. AGBIOL 2022 conference was organized with a worldwide participation from 44 countries over 522 papers contributed by over 1300 authors.

There is a worldwide participation from 33 countries 833 papers contributed by over 2000 authors with 522 oral and 311 poster presentations in AGBIOL 2023.

The AGBIOL 2023 will be normal participation as well as with online participation in Trakya University Balkan Congress Center in Edirne, Turkey on 18-20 September, 2023. The program will include oral talks by invited prominent scientists and oral and e poster presentations by participants in selected topics from the submitted abstracts focusing on Agriculture, Biology and Life Sciences topics.

With care for our nature and environment, we aim the green congress, meaning that as little as possible papers will be used. Abstract book will be published in electronic book and will be distributed to the participants on flash memory stick as well as by e mail for online participants. All the e-posters should be prepared in electronic form and then submit to via the conference e mail and will exhibit in electronical poster boards as well as in online e poster hall in our web page during the conference.

The participants with paid conference fee will be able to access all the normal and virtual presentation talks in each session, as well as to visit the virtual poster hall via preliminary provided participant ID and codes. The selected ABSTRACTs will be published in the Conference ABSTRACT and Proceedings Book. Participants might send us their full papers, which based on their preferences will be published either in our Conference ABSTRACT and Proceedings Book or in selected International Indexed Scientific Journals.

Conference Topics:

Agriculture, Forestry, Life Sciences, Agricultural Engineering, Aquaculture and Biosystems, Animal Science, Biomedical science, Biochemistry and Molecular Biology, Biology, Bioengineering, Biomaterials, Biomechanics, Biophysics, Bioscience, Biotechnology, Botany, Chemistry, Chemical Engineering, Earth Sciences, Environmental Science, Food Science, Genetics and Human Genetics, Medical Science, Machinery, Pharmaceutical Sciences, Physics, Soil Science.

We would like to thank all of you for joining this conference and we would like to give also special thanks to our sponsors and collaborators for giving us a big support to organize this event.

Prof Dr Yalcin KAYA
Head of the Organizing Committee

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CHANGES IN THE SOIL PROPERTIES OF AGRICULTURAL LANDS AROUND ORGANIZED INDUSTRIAL ZONE CAUSED BY INDUSTRY IN VAN, TÜRKIYE

Prof. Dr. Füsun GÜLSER, Dr. Öğretim Üyesi Siyami KARACA, Araş. Gör. Bulut SARĞIN*

Van Yüzüncü Yıl University, Faculty of Agriculture, Department of Soil Science and Plant Nutrition, Van/Turkey
Corresponding author: Prof. Dr. Füsun GÜLSER* e-mail:fgulser@yyu.edu.tr*

ABSTRACT

In this study, it was aimed to investigate some properties of the soils around the Van organized industrial zone. Different six sampling points within each direction were determined in the north, south, and east directions of industrial zone. The total set of 54 soil samples were taking from 0-20 cm depth in different three positions as 0.2 km, 1.0 km and 2.0 km far away to pollutant source. GPS readings were recorded for each sampling points. Generally, electrical conductivity (EC) and lime ($CaCO_3$) content means decreased while the distance to industrial zone increased in soils. In soil samples the highest pH, EC and lime content means as 9.19, 326.70 **µ**mhos cm^{-1} and 42.34 % in 0.2 km far away to industrial zone; the lowest means of these parameters in 2.0 km far away to pollutant source were obtained. Van Organized Industrial Zone operates in the paint production, tile adhesive and joint filler, packaging cardboard and bag manufacturing, vehicle plate manufacturing, PVC and drilling pipes, styrofoam and thermal insulation materials manufacturing/foam packaging manufacturing, food, electricity, marble processing, facade cladding, textile clothing, detergent and cosmetic products, construction, petroleum products, paper and napkin production, furniture, metal, automotive, cable and plastic production sectors. It is thought that the waste materials released to the environment from these industrial activities cause changes in the soil properties studied.

Key words: Industry, soil reaction, soil electrical condactivity, lime content

INTRODUCTION

After the Industrial Revolution, depletion of natural resources, carbon emissions, pollution and human health problems have become threats worldwide. The developing world generally appears to have high levels of polluting activities in the industrial sector. Nowadays, problems related to industrialization such as increasing greenhouse gas emissions, air and water pollution, increasing waste volumes, desertification and soil chemical or heavy metal pollution are increasing. Diffuse pollution is a significant threat to soil conservation, and this is much more pronounced in urban communities with multiple emissions sources (Biasoli and Ajmone-Marsan, 2007). Depending on the properties of the soil, chemicals emitted can either react with other soil factors, be absorbed by soil substances, or mix directly with groundwater, causing other types of pollution. Due to the behavior of these chemicals in the soil, it is very difficult to determine their fate in the soil. With the onset of widespread chemical degradation, some soil functions are inhibited. The most important of these functions are the buffering, filtering and transformation capacity of the soil (EEA, 2014).With the loss or inhibition of these functions, the soil loses its capacity to remove harmful chemicals or reduce their impact on crop growth and yield (Halm and Grathwohl, 2005).

MATERIAL AND METHOD

The research was carried out in a location with the coordinates of 38° 33' north and longitude 43° 17' east (Figure 1). The research area is located within the continental climate zone (Anonymous, 2019). Van Organized Industrial Zone operates in the paint production, tile adhesive and joint filler, packaging cardboard and bag manufacturing, vehicle plate manufacturing, PVC and drilling pipes, styrofoam and thermal insulation materials manufacturing/foam packaging manufacturing, food, electricity, marble processing, facade cladding, textile clothing, detergent and cosmetic products, construction, petroleum products, paper and napkin production, furniture, metal, automotive, cable and plastic production sectors.

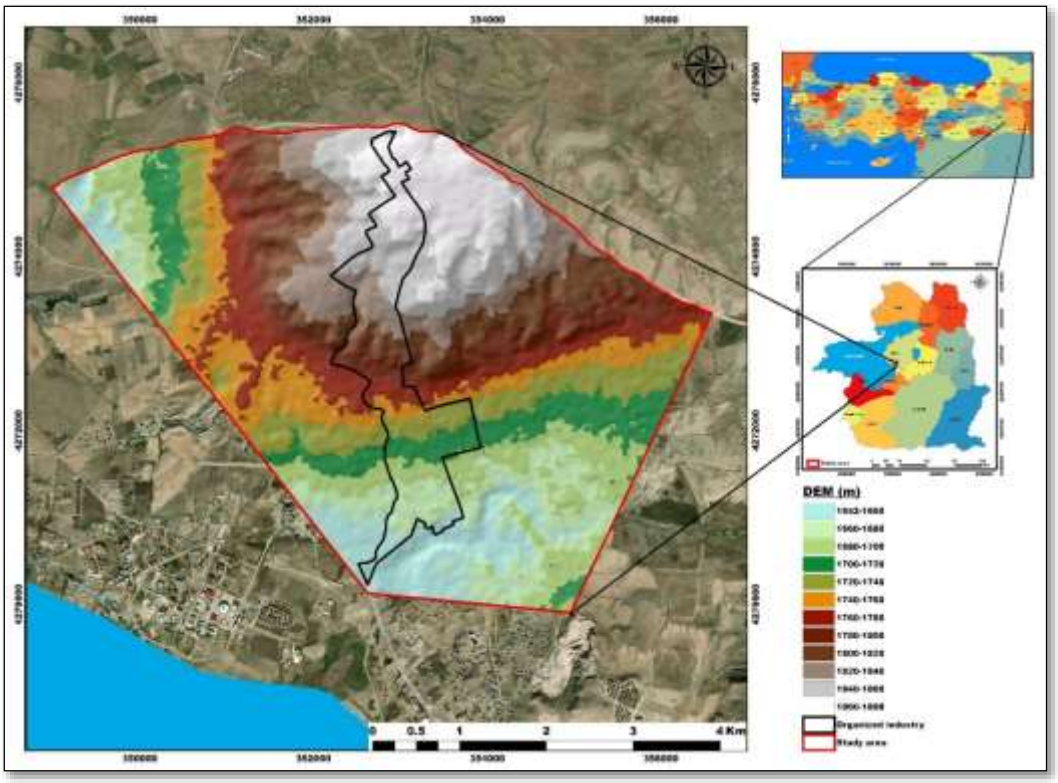


Figure 1. The study area.

Different six sampling points within each direction were determined in north, south and east directions of industrial zone. The total set of 54 soil samples were taking from 0-20 cm depth in different three positions as 0.2 km, 1.0 km and 2.0 km far away to pollutant source. GPS readings were recorded for each sampling points (Figure 2)



Figure 2. Locations where soil samples were taken in the study area.

Some chemical properties of soil samples taken from 0-20 cm depth were determined as follows; soil reaction in 1:2.5 (W:V) soil:water suspension by meter and soil salinity by EC meter, in the same suspension (Black,1965), lime content by Scheibler calcimeter (Goh et al.,1993). SAS package program was used for statistical analysis (SAS, 1998).

RESULTS AND DISCUSSION

According to variance analyzes results, effects of distance to pollutant souce were found significant for electrical condactivity (EC) means and lime ($CaCO_3$) contents at 1% significance level in east direction of organized industrial zone. The lime contents were also significantly (5%) affected by distances to the pollutant source in south direction of organized industrial zone. The effect of distance on all of investigated soil chemical pro perties was non significant in west direction of organized industrial zone. The changes in pH means were not found significant in all directions statistically. (Table1).

Table1. The results of variance analyses results of some chemical properties of soil samples taken from different distance and direction to organized industrial zone.

Directions		$CaCO_3$	EC	pH
	Df	2	2	2
East	F	23.54**	10.35**	1.21 ns
West	F	2.18 ns	1.06 ns	1.33 ns
South	F	4.44*	0.37 ns	0.33 ns

Generally, electrical condactivity and lime content means decreased while the distance to industrial zone increased in soils. As that seen in Figure 3,4,5 the highest EC and $CaCO_3$ means were obtained in 0.2 km far away from pollutant source as 8.47, 138.34 μmhos cm^{-1} and 26.90 % respectively for east direction. The lowest means of these parameters were 8.37, 106.91 μmhos cm^{-1} and 8.06 % respectively in 2.0 km far away from pollutant source. For south direction the highest pH, EC and $CaCO_3$ means were obtained as 8.51, 151.55 μmhos cm^{-1} and 17.67 % in 0.2 km far away from pollutant source while the lowest means of, EC and $CaCO_3$ were 8.44, 131.24 μmhos cm^{-1} and 8.07 % in 2.0 km far away from pollutant source (Figure 3,4,5). In soil samples taken from the west direction, as the distance to the industrial zone increased, the decreases in the pH, EC and $CaCO_3$ means occurred in a very narrow range as following 8.53-8.31, 177.55 μmhos cm^{-1} – 202.120 μmhos $cm^{-1}$and 13.42 % -16.67 %.

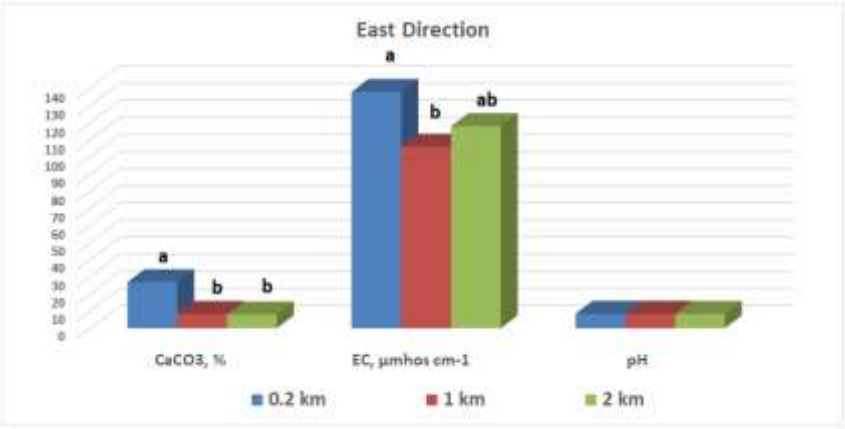


Figure 3.The changes in pH, EC and $CaCO_3$ means depending on distance in the east direction.



Figure 4.The changes in pH, EC and $CaCO_3$ means depending on distance in the south direction.

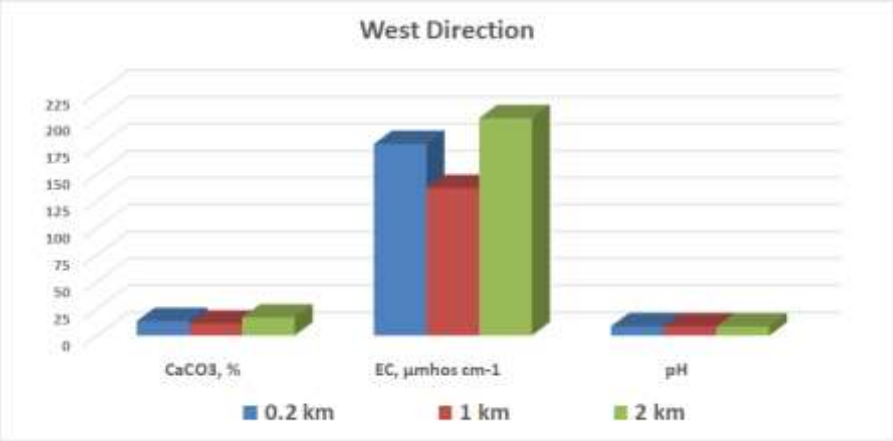


Figure 5. The changes in pH, EC and $CaCO_3$ means depending on distance in the west direction.

When taking into account analyses results soil itwas determined that pH, EC and $CaCO_3$ means of soil samples taken from away to 0.2 km were higher than those taking from more far away distances to organized industrial zone. Although the pH means (for east, south and west directions: 8.47, 8.51 and 8.53) were found to be higher at a distance of 0.2 km from the zone, they were considered slightly alkaline according to the reported limit value. Similarly, higher EC means (for east, south and west directions: 138 µmhos cm^{-1}, 151 µmhos cm^{-1} and 202 µmhos cm^{-1}) closer to the source were also considered nonsaline according to the reported limit values (Müftüoğlu et al., 2014). In tis study $CaCO_3$ means (for east, south and west directions: 26.90%, 17.67% and 16.67%) of soil samples taken from away to 0.2 km to organized industrial zone were found in high level according to reported limit values.

In this study, it is thought that the very high $CaCO_3$ values found in the agricultural lands close to the organized industrial zone are caused by industrial activities such as marble processing, construction, food detergent and cosmetic products. It is known that high $CaCO_3$ in soil reduces the availability of plant nutrients (Marschner, 1995).

It was reported that since many agricultural sustainability issues are related to soil quality, its assessment is very important. Thus, its assessment and the direction of change with time is a primary indice of whether agriculture is sustainable. (Karlen et al., 1997; Masto et al., 2007; Glanz, 1995). Rojas (2018) reported that pH, EC and $CaCO_3$ parameters are among the chemical soil quality indexes. A further increase in the lime level in the research area of the Van Lake basin soil, which is reported as calcareous (Gülser and Karaçal, 1992), will create problems in terms of the sustainability of plant production.

CONCLUSIONS

In our study, it was concluded that wastes should be disposed of in a controlled manner to ensure sustainability in the lands around the industrial zone and to protect soil health and quality. In addition, the results of this research are considered as stimulating and guiding for the industrial branches in the research area to operate within the framework of solid waste regulations that can prevent environmental pollution.

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V. INTERNATIONAL AGRICULTURAL, BIOLOGICAL & LIFE SCIENCE CONFERENCE

18-20, 2023, Edirne, Turkey

AGBIOL 2023 CONFERENCE PROGRAM

PLENARY SESSION

MONDAY, SEPTEMBER 18TH, 2023	
09 00 - 12 00	Registration
10 00 - 10 30	Opening Ceremony
10 30 - 12 00	**OPENING SESSION:** Session Chair: ***PROF. DR. VILIANA VASSILEVA, Kneja Maize Research Inst, BULGARIA***
10 30 – 11 00	**EMERITUS PROF DR APOSTOLOS KIRITSAKIS, International Hellenic University, Greece "**Olive oil as a functional food**"**
11 00 – 11 30	**PROF DR ENDER MAKINECI, Istanbul Univ-Cerrahpasa, Turkey** "Ecological processes on the conversion of coppices to high forests in Turkiye-Thrace*"*
11 30 – 12 00	**ASSOC PROF DR MARIANA PETKOVA – Plovdiv Agriculture Univ, Bulgaria** "Endophytic microorganisms for plant growth promotion and biotechnological applications*"*
12 00 – 13 00	***LUNCH***

1st *Ses*	AGBIOL-I Chair Prof Dr Apostolos KIRITSAKIS	AGBIOL-II ENG Chair Prof Dr Ender MAKINECI	AGBIOL-III ENG MARIANA PETKOVA	AGBIOL-IV TURKISH Prof Dr Türkan KEÇELİ	AGBIOL-V ONLINE ENGLISH	AGBIOL-VI ONLINE ENGLISH	AGBIOL-VII ONLINE TURKISH	AGBIOL-VII ONLINE TURKISH
13 00-13 15 1	Suppressive effect of composts to control damping off disease of Aleppo pine seedlings in Northwestern Algeria - Lazreg Fatiha, Elouissı Mouffok, Karima Boungab, Asma Guessab	Biomass productivity of *Salicornia europaea* L. in hydroponic of a pilot integrated multi-trophic aquaculture system operated full-strength seawater –M. Ali Turan Koçer, Oktay Ertuğrul, Serkan Erkan, Durali Eraslan, Özgür Aktaş	The evaluation of genotoxic effect of green synthesized silver nanoparticles with comet assay - Deniz Yuzbasioglu, Fatma Okus, Ece Avuloglu Yilmaz, Zehranur Yuksekdag, Fatma Unal	The Effect of Sewage Sludge Utilization on Forage Crops Cultivation - Abdullah Yazıcı	Wild boar meat consumption: zoonotic pathogens and possible transmission of antimicrobial resistance - Giacomo Di Giacinto, Patrizia Casagrande Proietti	The impact of social media on healthy food consumption behavior of young adults in Sri Lanka - Sasini Wickramanayaka, Sandali Ranaweera, Shashika Rathnayaka, Chamali Amarakoon, Prasadika Sirisena, Jagath Kariyawasam	Use and applications of current biotechnological cultivation methods in hemp (*Cannabis sativa*) - Mert Arslanbayrak, Ali Kemal Ayan, Büşra Tik, Hossein Hajiabaee	Comparıson of total phenolıc and total flavonoıd contents of both aqueous and methanolıc extracts of *Marrubıum vulgare* L. - Dilek Güney, Aslı Can Ağca, Murat Koç
13 15-13 30 2	Synthesis of silver and gold nanoparticles from onion peel biowastes - Gamze Tan, Necdet Sağlam	Changes in the nutrient composition of rice bran with the use of rumen liquid in solid state fermentation - Emrah Güngör, Şevket Özlü, Aydın Altop, Güray Erener	DNA Damaging Effect of Piroxicam on Human Lymphocytes Using Comet Assay - Ece Avuloglu Yilmaz, Esra Erikel, Sevcan Mamur, Fatma Unal, Deniz Yuzbasioglu	Determination of Yield Protein Characteristics in Different Bean Varieties - Feride Öncan Sümer	Simulation of the granulated organic fertilizer centrifugal spreading - Vaidas Bivainis, Eglė Jotautienė, Ramūnas Mieldažys, Aloyzas Gaudutis	Quality of dry peppermint (*Mentha piperita* L.) leaves as affected by in-package dielectric barrier discharge cold plasma - Barış Uz, Celale Kırkın Gözükırmızı, Gurbuz Gunes	Germination methods and applications in giant nettle (*Girardinia diversifolia*) - Mert Arslanbayrak, Ali Kemal Ayan, Büşra Tik	Whıte oleander: ınvestıgatıon of potentıal usage ın aquaculture and cosmetıcs ındustrıes - Ali Sağlam, İrem Çelik, Hilal Taşbaşı, Meltem Aşan Özüsağlam

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Trakya Üniversitesi Bitki Islahı Uygulama Araştırma Merkezi, Uluslararası Araştırmacılar Derneği ile ortaklaşa düzenlenen 5. AGBIOL Konferansı organizasyon komitesinde akademisyen temsilcilsi olarak Organizasyon komitesi başkanı olarak Prof Dr Yalçın KAYA ve başkan yardımcısı olarak Doç Dr Necmi BEŞER görevlendirilmiştir.

Gereğini arz ederim.

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Adres : Trakya Üniversitesi Rektörlüğü Balkan Yerleşkesi Edirne 22030
Telefon : 2843362841 Faks : 2842233314
e-Posta:bisam@trakya.edu.tr Web:http://bisam.trakya.edu.tr/
Kep Adresi : trakyauni@hs01.kep.tr

Bilgi için : Yalçın KAYA
Unvanı : Merkez Müdürü