

PERSONNEL INFORMATION	
Name Surname	Dr. Betül BAYRAKLI
Title	Agricultural Engineer (PhD)
Telephone	+90 505 468 26 93
E-Mail	bbetul25@gmail.com betul.bayrakli@tarimorman.gov.tr
Date Of Birth / Place	1977 - Samsun

EDUCATION INFORMATION	
PhD	
Name of University	Ondokuz Mayıs University
Department / Year of Graduation	Institute of Science, Department of Soil Science and Plant Nutrition / 2007
MSc.	
Name of University	Ondokuz Mayıs University
Department / Year of Graduation	Institute of Science, Department of Soil Science and Plant Nutrition / 2002
BSc.	
Name of University	Ondokuz Mayıs University
Department / Year of Graduation	Faculty of Agriculture, Department of Soil / 1998

LANGUAGE PROFICIENCY				
Language / Levels	KPDS	ÜDS	TOEFL	IELTS
English		63,75	-	-

ARTICLES & PAPERS & PUBLICATIONS
Kızılkaya, R., Bayraklı, B., 2005. Effect of N-enriched sewage sludge on soil enzyme activities. Applied Soil Ecology, 30: 192-202.
Kızılkaya, R., Aşkın, T., Bayraklı, B., Sağlam, M., 2004. Microbiological characteristics of soils contaminated with heavy metals. European journal of Soil Biology, 40: 95-102.
Aşkın, T., Kızılkaya, R., Gülser, C., Bayraklı, B., 2004. Some microbiological properties of campus soils of Ondokuz Mayıs University. J. of Fac. of Agric., OMU, 19(1): 31-36.
Kızılkaya, R., Yirmibeşoğlu, B., Özdemir, N., Aşkın, T., 2001. Effects of topography to some microbiological properties of soils. J. of Fac. of Agric., OMU, 16 (1): 27-34.
Özyazıcı, M.A., Aydoğan, M., Bayraklı, B., Dengiz, O., 2013. Basic characteristic properties and fertility conditions of the red-yellow podzolic soils in Eastern Black Sea Region. Anadolu J. Agric. Sci., 28(1):24-32.
Sürücü, A., Özyazıcı, M.A., Bayraklı, B. and Kizilkaya, R., 2014. Effects of green manuring on soil enzyme activity. Fresenius Environmental Bulletin, 23(9): 2126-2132.
Bayraklı, B., Kızılkaya, R., 2014. Determination of changes occurred in soil biological properties by the application of sewage sludge with Zn. Vestnik Bashkir State Agrarian University (BSAU) 2,6-9.

Kızılkaya, R., Aşkın, T., Bayraklı, B., Sağlam, M., 2002. The relationships between heavy metal contents and microbiological characteristics in Bafra and Çarşamba Plain soils. International Conference on Sustainable Land Use and Management, 10-13 June 2002, Çanakkale, Turkey.

Özyazıcı, M.A., Özdemir, O., Bayraklı, B., Özyazıcı, G., 2007. The effects of faba bean (*Vicia faba* L.) grown as forage or green manure in maize-wheat rotation on Fe, Cu, Zn and Mn availabilities in soil. Atatürk Üniv. Ziraat Fakültesi Tarla Bitkileri Bölümü ve Tarla Bitkileri Bilimi Derneği Türkiye VII. Tarla Bitkileri Kongresi, Bildiriler-2, Çayır Mera Yem Bitkileri ve Endüstri Bitkileri, s.380-383, 25-27 Haziran 2007, Erzurum.

Özyazıcı, M.A., Özyazıcı, G., Özdemir, O., Bayraklı, B., 2007. The effects of green manure applications on the some of the plant micronutrients (Fe,Cu,Zn,Mn) content of maize and wheat . GAP V. Tarım Kongresi, s. 390-398, 17-19 Ekim 2007, Şanlıurfa.

Özdemir, O., Özyazıcı, M.A., Bayraklı, B., Özyazıcı, G., 2008. Evaluation of potential nutrition problem and fertility status of the wheat grown soils of Samsun region 4. Ulusal Bitki Besleme ve Gübre Kongresi, s. 548- 553, 8-10 Ekim 2008, Konya.

Kızılkaya, R., Hepşen, F.Ş., Akça, İ., Bayraklı, B., Aşkın, T., Türkmen, C., 2009. Determination of total and mobile Pb fractions during vermicomposting in sewage sludge. International Symposium on Environment, 20-23 May, Kyrgyzstan.

Özyazıcı, M.A., Bayraklı, B., Özyazıcı, G. and Özdemir, O., 2009. Some properties of wheat and rice grown agricultural soils in Samsun province and their plant available microelement contents. Ülkesel Tahıl Sempozyumu, s. 891-898, 2-5 Haziran 2008, Konya.

Bayraklı, B., Kızılkaya, R., 2010. Effect of zinc contamination with and without sewage sludge on soil dehydrogenase activity. International Soil Science Congress on Management of Natural Resources to Sustain Soil Health and Quality, 26-28 May 2010. pp. 566-572, Samsun, Turkey.

Kızılkaya, R., Hepşen Türkay, F.Ş., Bayraklı, B., Aşkın, T., Türkmen, C., Akça, İ., Ceyhan, V., 2010. Enzyme and earthworm activities during vermicomposting in sewage sludge. International Soil Science Congress on Management of Natural Resources to Sustain Soil Health and Quality, 26-28 May 2010. pp. 1047-1054, Samsun, Turkey.

Özyazıcı, M.A., Bayraklı, B., Özyazıcı, G. and Kızılkaya, R., 2010. The effect of green manure applications by faba bean on urease and dehydrogenase enzyme activity of soils after harvesting. Türkiye VIII. Tarla Bitkileri Kongresi, Cilt I Sunulu Bildiriler, Nobel Yayın No: 1505, Fen Bilimleri: 103, s. 661-665, 19-22 Ekim 2009, Hatay.

Özyazıcı, G., Bayraklı, B., İç, S., 2013. The organic tomatoes cultivation the effects of previous plant and organic fertilizers some biological characteristics of soils. Türkiye V. Organik Tarım Sempozyumu, s.155-161, 25-27 Eylül 2013, Samsun.

Özyazıcı, G., Bayraklı, B., İç, S., Pekşen, A., 2013. The effects of previous plant and organic fertilizers on yield, nutrient status and some chemical characteristics of soils in the organic red pepper cultivation. Türkiye V. Organik Tarım Sempozyumu, s.162-169, 25-27 Eylül 2013, Samsun.

Özyazıcı, G., Özyazıcı, M.A., Bayraklı, B., Özdemir, O., 2013. The effects of soil conditioner and organic manure applications on yield and macro and micro element contents of soils in organic kiwifruit cultivation. III. Ulusal Toprak ve Su Kaynakları Kongresi, s. 146-156, 22-24 Ekim 2013, Tokat.

Özyazıcı, G., Bayraklı, B., Özyazıcı, M.A., 2013. The winter vegetable cultivation on the effects of nitrogenous fertilizer and gyttja levels on yield, nitrate content and some chemical characteristics of soils. III. Ulusal Toprak ve Su Kaynakları Kongresi, s.201-212, 22-24 Ekim 2013, Tokat.

Bayraklı, B., Kızılkaya, R., 2014. Changes in microbial biomass, soil respiration and enzyme activities in Zn contaminated soil under field condition. 9th International Soil Science Congress on "The Soul of

Soil and Civilization”, 14-16 October, Side, Antalya/Turkey.

Bayraklı, B., Gülser, C., Kesim, E., 2015. Effects of hazelnut husk applications on some soil properties in a hazelnut orchard. International Soil Science Congress on “Soil Science in International Year of Soils 2015, Sochi, Russia. Abstract Book, pp.39.

Özyazıcı, M.A., Dengiz, O., Aydoğan, M., Bayraklı, B., Kesim, E., Urla, Ö., Yıldız, H., Ünal, E. 2016. Levels of basic fertility and the spatial distribution of agricultural soils in Central and Eastern Black Sea Region Anadolu J Agr Sci. 31(1) : 136-148.

Özyazıcı, G., Özyazıcı, M., Bayraklı, B., 2017. Influence of Organic Fertilizer and Soil Amendments on Some Soil Biological Properties. International Conference On Agriculture, Forest, Food Sciences and Technologies, 15-17, May 2017 (Sunulu Bildiri), Kapadokya.

Bayraklı B., Dengiz O., Öztürk E., İç S., Erkoçak A., Kesim E., Kars N., Birol M. 2018. Identification of Suitable Micro Catchments for Organic Agriculture Using GIS and Remote Sensing in East Part of the Black Sea Region.

International Soil Science Congress on “Environment and Soil Resources Conservation”. pp:22-34 17-19 October, Almaty / Kazakhstan.

Bayraklı, B., & Dengiz, O., 2019. Determination of heavy metal risk and their enrichment factor in intensive cultivated soils of Tokat Province. Eurasian Journal of Soil Science, 8(3), 249-256.

Bayraklı, B., & Dengiz, O., 2020. An evaluation of heavy metal pollution risk in tea cultivation soils of micro-catchments using various pollution indexes under humid environmental condition. Rendiconti Lincei. Scienze Fisiche e Naturali, 1-17.

PROJECTS

1. The effect of the yield of the plant on inoculation of soybean seeds with different nodozite bacterium culture in the conditions of The Black Sea Region and selection the most suitable culture for the Region. General Directorate of Agricultural Research and Policies, 2003-2006.
2. The effects of hazelnut husk, rice husk and wheat straw to hazelnut, white head cabbage, tomato and wheat’s yield and soil properties. General Directorate of Agricultural Research and Policies, 2007-2010.
3. Effect of phosphorus solubilizing bacteria applied with rock phosphate and triple super phosphate on the inorganic phosphorus fractions of soil and wheat yield. General Directorate of Agricultural Research and Policies, 2015-2017.
4. Determination of plant nutrition status and potential toxic element contents of Bartın and Zonguldak Regions agricultural soils, preparation of soil data base and soil maps. General Directorate of Agricultural Research and Policies, 2016-2017.
5. The effect of green manure in maize-wheat crop rotation on yield, quality and soil characteristics. General Directorate of Agricultural Research and Policies, 2000-2005.
6. Producing vermicompost by means of composting hazelnut husk and sewage sludge via earthworm (*Eisenia foetida*) and determining effects of vermicompost use on yield and some toxic metal content of wheat (*Triticum aestivum*) by field and greenhouse experiments. The Scientific and Technological Research Council of Turkey, 2007-2010.
7. Usage of the compost obtained from organic tea processing waste products in organic tea production. General Directorate of Vegetative Production, 2012-2015.
8. The effects of different winter cover crop and organic fertilizers in tomato and red pepper on yield, quality and fungal flora. General Directorate of Vegetative Production, 2012-2014.

- 9.** Organic hazelnut and kiwifruit growing in Samsun province. General Directorate of Vegetative Production, 2008-2011.
- 10.** The inside doog agricultural practices in vegatable on the effect of nitrogenous fertilizer amounts and gyttja doses on yield and soil properties. General Directorate of Agricultural Research and Policies, 2008-2011.
- 11.** Determination of plant nutrient and potential toxic element in middle and East Black Sea Region agricultural soils and their making database and mapping. General Directorate of Agricultural Research and Policies, 2008-2012.
- 12.** The probability of using the sewage sludge (biosolids) from secondary domestic wastewater treatment plants on Bafra Plain agriculture. General Directorate of Agricultural Research and Policies, 2002-2006.
- 13.** Determination of organic agriculture basins in DOKAP Region. Eastern Black Sea Region Development Project Management Presidency (DOKAP), 2016-2018.
- 14.** Determination of important physical and chemical properties of soils cultivated with different plants in terms of irrigation and drainage and estimation of these parameters through artificial intelligence techniques: A Case for Bafra Plain Right Coast
- 15.** Determination of suitable carrier materials for some phosphorus soluble bacteria applied together with rock phosphate and effect of bread corn on yield in the field condition