

Project Title: Determination of Potential Toxic Elements and Nutrient Contents in Agricultural Lands of Salihli and Turgutlu Plains

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| Research Area | Soil and Water Resources |
| Research Program | Soil Quality and Pollution |
| Executive Institute | International Agricultural Research and Training Center (IARTC) |
| Supporting Institute/s | -- |
| Project Leader | Dr. Nejat ÖZDEN |
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| Research Period | 2008 - 2011 |

Project Summary: Salihli and Turgutlu territories are two plains having intensive agriculture with total area of 1800 km² in Aegean region of Western Turkey. The most of the agricultural lands are cultivated by seedless raisin (sultanas), cotton, tobacco, olive and cherry crops mainly in these plains. These areas' economies are based on agriculture, agriculture-based trade and industry. The prevalence of uncontrolled use of chemical fertilizers especially leads to accumulation of heavy metal and phosphorus in the soils. For agricultural land of the both of the plains, it was aimed to find and analysis some factors caused accumulation, as follows;

productivity status,
macro and micro nutrient contents,
potential toxic elements content
forming of a database for characteristics of soils,
distribution maps with geo-statistics techniques (kriging, IDW etc.) for each parameter of the soil.