



TAGEM
R&D AND INNOVATION

INTERNATIONAL AGRICULTURAL RESEARCH
AND TRAINING CENTER/ İZMİR

TUNCAY TOPDEMİR M.Sc. Agricultural Engineer

EDUCATION

- PhD** Adnan Menderes University
Graduate School of
Natural and Applied Sciences
2020-Ongoing
 - MSc** Adnan Menderes University
Graduate School of
Natural and Applied Sciences
2018
 - Bachelor's Degree** Adnan Menderes University
Graduate School of
Natural and Applied Sciences
2018
- LANGUAGE** English YÖKDİL 58,75

CAREER

- 2020 – International Agricultural Research and Training Centre - Director – İZMİR
- 2019 – International Agricultural Research and Training Centre - Administrative Coordinator İZMİR
- 2009 – International Agricultural Research and Training Centre - Engineer /Head of Department – İZMİR
- 2008 – Agrohydrology Research and Training Centre – Engineer – İZMİR
- 2006 – District Directorate of Çan – District Manager / Engineer – ÇANAKKALE
- 2003 – District Directorate of Yenice – Engineer – ÇANAKKALE
- 2002 – Province Directorate – Technician – KARS
- 1996 – District Directorate of Arpaçay – Technician – KARS


ABOUT ME

He was born in Eskişehir in 1977. In 2002, he graduated from Ege University, Faculty of Agriculture, Department of Agricultural Machinery.


He has worked in different titles starting from technician within the Ministry and is currently working as the Director of the International Agricultural Research and Training Center.

He worked as a coordinator and researcher in many national and international studies on soil cultivation methods, measurement and reduction of greenhouse gas emissions, as well as climate change and other agricultural mechanization.

CONTACT

 Camikebir Mahallesi, Maltepe Yolu,
No: 27/1, Menemen / İzmir
35660 TÜRKİYE

 tuncay.topdemir@tarimorman.gov.tr

 0232 831 10 52



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▪ **PROJECTS**

▪ **Projects Conducted**

1. Determination of Application Zones by Soil Fertility Variation at Field Levels, Menemen Case. (TAGEM, Researcher)
2. Farming Tools for external nutrient Inputs and water Management (FATIMA) (EU HORIZON, Researcher)
3. Comparison of Drip Irrigation and Sub-Surface Drip Irrigation and Satsuma Variety Tangerine Irrigation Systems and Investigation of Effects on Yield and Some Growth Parameters (Private Sector Cooperation, Researcher)
4. Investigation of the Effect of Some Chemical Fertilizers on Soil Improvement and Grain Yield in Salted Soils (Private Sector Cooperation, Researcher)
5. Production of Liquid Chemical Fertilizers Suitable for Plants Grown in Aqueous and Dry Conditions, Comparison of Efficiency with Conventional Solid Chemical Fertilizers and Development of Machines Suitable for Liquid Fertilizer Use (TAGEM R & D Support Program, Researcher)
6. Field Moisture Capacity Improving Applications with Semi-Circular Micro-Catchment Water Harvesting Technique in Olive Cultivation (TAGEM, Researcher)
7. Determination of the Effects of Different Tillage Methods on CO2 Emission and Physical, Chemical and Biologic Properties of the Soil (TAGEM, Project Leader)
8. Determination of the Effects of Different Tillage Methods on Yield and Physical, Chemical and Biologic Properties of the Soil (TAGEM, Project Leader)



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▪ **PROJECTS**

▪ **Ongoing Projects**

1. Determination of Some Environmental Effects of Different Tillage-Sowing Methods and Fertilizer Restricted Doses in Salty-Alkali Agricultural Lands (TAGEM, Researcher)
2. The Effect of Micro-catchment (Semi-circular Sediments) Water Harvesting Technique and Applications of Increasing Soil Retention Capacity on Olive Irrigation Water (TAGEM, Researcher)
3. Learning and action alliances for Nexus environments in an uncertain future (AB HORIZON 2020, Project Leader)
4. Development a Prototype of Precision Sprayer by Using Deep Learning Method on Weed Control for Maize (TAGEM, Researcher)



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▪ **PUBLICATIONS**

▪ **INTERNATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in International Journals**

▪ **International Papers, Seminars, etc.**

1. TOPDEMİR, T., COŞKUN, M., 2019. Determination of Energy Efficiency and Use Efficiency of Different Tillage Methods Applied in Cotton Breeding. 6th International Congress on Soil and Water Resources, 12-14 November 2019, İzmir.
2. ŞEN, S., ALKAN, Ü., YILMAZ, G., TOPDEMİR, T., 2019. The Effects of Some Applications to Improve Soil Water Retention Capacity by Using Micro - catchment Water Harvesting Technique on Olive Sapling Development. Harvest International Agriculture and Forestry Congress, 21-23 June 2019, Ankara.
3. ŞEN, S., YILMAZ, G., TOPDEMİR, T., ALKAN, Ü., 2017. The Effect of Some Applications to Increase Soil Water Attitude Capacity by Semicircular Micro-catchment Water Harvesting Technique on Olive Seedling Development. 5th International Soil and Water Resources Congress, September - 2017 Kırklareli.
4. ÇELİK, A., AKKUZU, E., TOPDEMİR, T., 2012. Roofing for Rain Water Harvesting Technique to Supply Potable Water. International Construction Congress, 11-13 October, Isparta, Turkey.
5. ÇELİK, A., TOPDEMİR, T., 2012. Seawater Greenhouse Applications by Using Solar Energy. International Construction Congress, 11-13 October, Isparta, Turkey.



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▪ **PUBLICATIONS**

▪ **NATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in National Journals**

1. ŞEN, S., YILMAZ, G., TOPDEMİR, T., ALKAN, Ü., (2019). The Effect of Some Applications of Increasing Soil Water Retention Capacity by Using Micro-catchment Water Harvesting Technique on Olive Seedling Development. Toprak Su Journal,(), 122-129. DOI: 10.21657/topraksu.655561
2. TOPDEMİR, T., COŞKUN, M., 2019. Determination of Energy Efficiency and Use Efficiency of Different Tillage Methods Applied in Cotton Breeding Under Menemen Conditions. Adnan Menderes University Journal of the Faculty of Agriculture, 16 (1), 7-12. DOI: 10.25308 / aduziraat.439650
3. TOPDEMİR, T., 2010. Precision Farming Technology and Applicability in Turkey. Analysis'35 No: 4 P: 30-33 Jan-Mar 2010.

▪ **National Papers, Seminars, etc.**

1. TOPDEMİR, T., AYKAS, E., ÖZÇELİK, Ş., USLU, İ., ŞEN, S.,RAHMANOĞLU, N., GÖÇMEZ, S., 2019. Determination of CO2 emissions after soil tillage in different tillage methods. 32nd National Agricultural Mechanization and Energy Congress 04-06 September 2019, Çanakkale



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▪ **OTHER PUBLICATIONS**

▪ **Ph.D. Thesis, Master Thesis, Reports, Books etc.**

1. TOPDEMİR, T., ÖZÇELİK, Ş., USLU, İ., ŞEN, S., RAHMANOĞLU, N., ÇELİK, Z., YÜCEERİM, G., AYKAS, E., GÖÇMEZ, S. (2021). Determination of the Effects of Different Tillage Methods on CO₂ Emission and Physical, Chemical and Biologic Properties of the Soil, (Project Final Report).
2. USLU, İ., TOPDEMİR, T., CANDAN, N., ŞEN, O. F., TEKİN, A. B., 2019. Determination of Application Zones According to Soil Fertility Variability at Field Level, Menemen Example, (Project Final Report).
3. TOPDEMİR, T., COŞKUN, M.B., (2018). Determination of Energy Efficiency and Utilization Efficiency of Different Tillage Methods Used in Cotton Growing in Menemen Conditions. (Master of Thesis)



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▪ Membership, Training, Course, Meeting, Congress, Symposium and Other Activities

1. Statistic-1, Izmir, 2008.
2. Identification of Problems Encountered in Cotton Production in Cotton Growing Countries Members of the Organization of the Islamic Conference and Determination of Cooperation Opportunities. Izmir, 2009.
3. Ridge Planting, Reduced Tillage Methods and Plant Growing Techniques in Dry Conditions. Diyarbakir, 2009.
4. International Sustainable Soil and Water Resources Management. Izmir, 2009.
5. Sustainable Soil Management. Kastamonu, 2010.
6. Pesticide and Pest Management Project Workshop in Central Asian Countries, UTAEM-FAO. Izmir, 2010.
7. Sub-Regional Workshop on Properties and Equivalence Quality of Pesticides, UTAEM - FAO. IZMIR, 2011.
8. International Workshop on Sustainable Water Management in Climate Change Conditions Iran Tehran City Water Management Regional Center – Utaem Joint Study. IZMIR, 2011.
9. Coach Training Course. NETHERLANDS, 2012.
10. Agricultural Mechanization and Information Technologies. İZMİR, 2013.
11. Determination of Soil Carbon Release From Field Conditions. TAGEM-ANKARA, 2016.
12. Climate Change and Basin Research Group Meteorological Instruments Working Systems. TAGEM-ANKARA, 2016.
13. Climate Change and Agricultural Ecology Research Group Evaluation of Greenhouse Gases from Agricultural Activities and Monitoring Projects. IZMIR, 2017.
14. Ex – Ante Carbon-balance Tool Training, UTAEM - FAO collaboration. IZMIR, 2018.
15. Modern Methods and Technologies in Agriculture. GERMANY, 2020.