



TAGEM
R&D AND INNOVATION

INTERNATIONAL AGRICULTURAL RESEARCH
AND TRAINING CENTER / İZMİR

Merve ETÖZ

Agricultural Engineer

EDUCATION

- PhD**
2012- Ege University
Farm Structures and Irrigation
Science
 - MSc**
2009-2011 Ege University
Farm Structures and Irrigation
Science
 - Bachelor's Degree**
2004-2008 Ege University
Faculty of Agriculture
- LANGUAGE** İngilizce KPDS 63 / ÜDS 72

CAREER

- 2011-..., Researcher, International Agricultural Research and
Training Center- İZMİR
- 2011 – 2011, Researcher, Menemen Soil and Water Resources
Research Institute-İZMİR

ABOUT ME


She was born in 1984 in Çanakkale. Graduated from Çanakkale Onsekiz Mart University, Faculty of Agriculture in 2008. Afterwards she completed her master's degree in Agricultural Structures and Irrigation Department of the same university in 2011. She started to work at Menemen Soil and Water Resources Research Institute in 2011. She still works as a research engineer in the Department of Climate Change and Agricultural Ecology at the, International Agricultural Research and Training Center.

She interested in climatology, olive phenology and physiology, dendrology, plant root development, water harvesting and agricultural irrigation.

CONTACT

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▪ **PROJECTS**

▪ **Projects Conducted**

1. Corn Root Parameters, Yield and Water Use Efficiency Response to Different Irrigation Levels That was Determined Based on Effective Rooting Depth with Minirhizotron (TÜBİTAK, Çanakkale Onsekiz Mart University / Scholarship, 2008-2010)
2. Precipitation and runoff characteristics of the watershed of Balıkesir-Bigadiç-Kocadere creek., (TAGEM, IARTC / Researcher, 1987-2012)
3. Farming Tools for external nutrient Inputs and water Management, FATIMA, European Union Project, (EU, IARTC / Researcher, 2015-2018)
4. Determination of the Climatic Fluctuations Effects on Olive Trees with the Dendroclimatological Research in Izmir Kemalpaşa Region, (TAGEM, IARTC / Project leader, 2014-2021)
5. Determination of the Temporal and Spatial Variation of Soil Moisture and Drought Analysis in Susurluk-Kocadere Sub-Basin, (TAGEM, IARTC / Researcher, 2014-2021)
6. National Crop Monitoring and Yield Estimation Project,) Crop Monitoring and Yield Estimation of Maize on the Menemen Plain (TAGEM, IARTC / Researcher, 2016-2021)

▪ **Ongoing Projects**

1. The Effect of Microcatchment Water Harvesting Technique on Irrigation in Olives (TAGEM, IARTC / Project leader, 2019-2023)
2. Analysis and Modeling of the Effects of Climatic Variability on Coastal Aegean Olive Growing Areas (TAGEM, IARTC / Project leader, 2019-2025)
3. Determination of Erosion Risk in Basin Scale, and Monitoring of Sediment and Organic Carbon Sources by Fingerprinting Technique (TAGEM, IARTC / Researcher, 2019-2023)
4. Evaluation of Climate Change Resilience of Agricultural Producers in Izmir Province (TAGEM, IARTC / Researcher, 2021-2023)
5. Effects of Climate Change on Soil and Water Resources in Agricultural Production / Sub-Project: Investigation of the Effects of Climatic Factors on Fig Phenology and Fruit Quality-2 (TAGEM, İAE / Researcher, 2020-2023)
6. Investigation of Medicinal Aromatic Plants in Olive Cultivation in Intermediate Agriculture System (TAGEM, ZAE / Researcher, 2022-2025)
7. Applications to Support Olive Cultivation by Improving Water Harvest and Soil Structure (Provincial Directorate of Agriculture, Extension Project / Researcher, 2022-2023)



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■ **PUBLICATIONS**

■ **INTERNATIONAL ARTICLES AND PAPERS**

■ **Articles Published in International Journals**

1. Yavuz M.Y., Cakir R., Kavdir Y., Deveciler M.,(2012).Irrigation water management for sprinkler irrigated corn using rooting data obtained by the minirhizotron technique. International Journal of Agriculture & Biology ISSN Print: 156-8530; ISSN Online: 1814-9596. 11-360/MFA/ 2012 / 14.1.11-19pg.
2. Yavuz M.Y., Demirel K., Erken O., Bahar E., Deveciler M., 2010.Emitter clogging and effects on drip irrigation system Performances. African Journal of Agricultural Research Vol. 5 (7), pp. 532– 538.

■ **International Papers, Seminars, etc.**

■ **NATIONAL ARTICLES AND PAPERS**

■ **Articles Published in National Journals**

1. Uslu İ., Çelik Z., Aras S., Karagül V., Etöz M., Özdarıcı Ok A., (2021). Determination of corn cultivation areas and grain yield by remote sensing and hybrid-maize plant model. Anadolu, J. of AARI 31 (2): 202-211.
2. Bora E., Tekeli M., Etöz M., 2015. Temporal Variation of Reference Crop Water Consumption and Measured Solar Radiation in Menemen Plain. ANADOLU Journal of AARI, 25: 65-76.
3. Yüceerim, G., Yılmaz, G., Etöz, M., Acar, C. O., 2019. Kocadere Havzasında Standartlaştırılmış Yağış İndeksi ile Farklı Zaman Ölçeğinde Kuraklık Analizi, Soil Water Journal, Special Issue: 70-76.

■ **International Papers, Seminars, etc.**

1. Etöz M., Yılmaz G., Şen O. F., Akkemik Ü., (2021). Effects Of Meteorological Variables on Stem Diameter Variation and Phenological Development in Olive Trees (Olea Europeae L.). III. Balkan Agricultural Congress. 29 August – 01 September / Edirne, Turkey (Oral presentation).
2. Etöz M., (2019). According to Phenological Periods The Effect of Climatic Variability on Olive Trunk Diameter Variation. 6th Congress on Soil and Water Resources with International Participation 12-14 November 2019 Menemen-İzmir, Türkiye (Oral presentation).
3. Etöz M., Yılmaz G., Yüceerim G., Dursun Ö., 2017. İkimdeki Mevsimsel Değişkenliğin Zeytin Fenolojik Gelişimi Üzerine Etkileri, Sözlü Sunum, 5th International Participation Soil and Water Resources Congress, 12-15 September 2017, KIRKLARELİ, (Oral presentation).
4. Yüceerim G., Yılmaz G., Etöz M., Acar C. O., 2017. Kocadere Havzasında Standartlaştırılmış Yağış İndeksi ile Farklı Zaman Ölçeğinde Kuraklık Analizi, , 5th International Participation Soil and Water Resources Congress, 12-15 September 2017, KIRKLARELİ, (Oral presentation).



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5. Etöz M., Sökmen Ö., Yüceerim G., 2016. Monitoring and usage areas of phenological stages with BBCH scale on olive trees (*Olea europaea*), 27th International Scientific-Expert Congress of Agriculture and Food Industry, / BURSA (Poster Bildiri).

▪ **National Papers, Seminars, etc.**

1. Kayam Y., Yılmaz G., Etöz M., Yüceerim G. , 2017. Bazı Kuraklık İndislerinin Karşılaştırılması Ve İklimsel Analizler; Menemen Örneği, 5th International Participation Soil and Water Resources Congress, 12-15 September 2017, KIRKLARELİ, (Oral presentation).
2. Etöz M., 2016. İklimsel parametrelerde mevsimsel dalgalanmaların zeytin fenolojisi ve fizyolojisi üzerine etkilerinin araştırılması (İzmir-Kemalpaşa örneği). 2nd Climate Change and Agriculture Interaction Workshop with International Participation, ŞANLIURFA, 174 (Oral presentation).
3. Deveciler M., Bora E., 2014. Meyve Ağaçlarında Gövde Çap Varyasyon İndekslerinin Sulama Planlama ve Tahmininde Kullanılma Olanakları, 12. National Kültürteknik Symposium / TEKİRDAĞ (Poster Presentation).
4. Yılmaz G., Yüceerim G., Deveciler M., 2014. İklim Değişikliği Sürecinde Kocadere Havzası Yağış ve Akımlarında Gözlenen Değişiklikler, 12. National Kültürteknik Symposium / TEKİRDAĞ (Poster Presentation).
5. Deveciler M., Yüceerim G., 2013. İklimsel Sürecin Tanımlanmasında Ağaç Yaş Halkaları Ve Stabil İzotop Oranlarından Yararlanma Olanakları, III. National Soil and Water Resources Congress / TOKAT, 877-884, (Poster Presentation).
6. Deveciler M., Yavuz M. Y., Çakır R., Kavdir Y., 2012. Sulama düzeylerindeki değişimin mısır bitkisi azot kullanımına etkileri. II. National Irrigation and Agricultural Structures Symposium / İZMİR. 215-221, (Oral presentation).
7. Deveciler M., Yılmaz G., Yüceerim G., Acar C. O., 2012. İklim değişikliği sürecinde Kocadere havzası maksimum, minimum ve ortalama hava sıcaklıkları ile yağış dizilerinde gözlemlenen değişiklikler ve eğilimler. Aegean agricultural research institute horticultural group regional shopping meeting - İZMİR. S; 17-25, (Oral presentation).
8. Yavuz M. Y., Çakır R., Kavdir Y., Bahar E., Deveciler M., 2011. Tekil lateral tekniği ile sulanan mısır bitkisi kök gelişiminin bitki su tüketimi üzerine etkisi. Çanakkale Agricultural Symposium, (Oral presentation).
9. Işık F., Yavuz M. Y., Çakır R., Kavdir Y., Deveciler M., Minirhizotron kamera ile elde edilen kök görüntülerine göre yapılan sulamaların biber bitkisinin verimi, kök gelişimi ve su kullanım randımanlarına etkisi, 2011. Çanakkale Agricultural Symposium, (Poster presentation).
10. Çankaya R., Yavuz M. Y., Bahar E., Deveciler M., 2011. Onsekiz Mart Çan Termik Santrali Uçucu Külünün Tarımsal Sulama Sistemlerinde Kullanılan Betonların Geçirgenlik Ve Mukavemet Özelliklerine Etkileri. Çanakkale Agricultural Symposium, (Poster presentation).



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Ziraat Yüksek Mühendisi



11. Işık F., Yavuz M. Y., Çakır R., Kavdır Y., Deveciler M., Minirhizotron kamera ile elde edilen kök görüntülerine göre yapılan sulamaların biber bitkisinin verimi, kök gelişimi ve su kullanım randımanlarına etkisi, 2011. Çanakkale Agricultural Symposium, (Poster presentation).
12. Çankaya R., Yavuz M., Y., Bahar E., Deveciler M., 2011. Onsekiz Mart Çan Termik Santrali Uçucu Külünün Tarımsal Sulama Sistemlerinde Kullanılan Betonların Geçirgenlik Ve Mukavemet Özelliklerine Etkileri. Çanakkale Agricultural Symposium, (Poster presentation).

▪ **OTHER PUBLICATIONS**

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

1. Etöz M., Yüceerim G., Yılmaz G., Sökmen Ö., Bora E., Dursun Ö., Akkemik Ü., Çakır R., Kavdır Y., Yavuz M. Y., Ul M. A., Aşık Ş., Atıl H., (2021) İklimsel Değişkenliğin İzmir Kemalpaşa Yöresinde Yetiştirilen Zeytin Ağaçlarına Etkilerinin Dendroklimatolojik Olarak Belirlenmesi. TAGEM/TSKAD/14/A13/P01/01. Bölgesel Proje Raporu. 128s.
2. Yüceerim, G., Etöz, M., Yılmaz, G., Aruğaslan, L., Doyuran, N., Aşık, Ş., Delibacak, S., Ongun, A. R., Okkan, U., 2020, Susurluk- Kocadere Alt Havzasında Toprak Neminin Zamansal ve Mekânsal Değişimi ve Kuraklık Analizi, Republic of Turkey Ministry of Agriculture and Forestry, General Directorate of Agricultural Research and Policy, Project Final Report, TAGEM/TSKAD/14/A13/P05/02.
3. Deveciler M., 2011. Farklı yağmurlama sulama düzeylerinin mısır kök gelişimi ve nitrat yıkanması üzerine etkileri. Çanakkale Onsekiz Mart Üniversitesi / Tarımsal Yapılar ve Sulama Anabilim Dalı- Yüksek Lisans Tezi, Danışman: Yrd. Doç. Dr. M. Y. Yavuz. 13.06.2011, 76s.

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

1. 2nd International Course on Climate Change and Drought Management – 2021- Izmir.
2. Training on Organizational Capacity Building for Climate Change Adaptation (İklimi Duy), Ministry of Environment and Urbanization – Directorate General of Environmental Management, 05-09/04/2021, 26-30/04/2021, 24-28/05/2021, 07-11/06/2021 (Online).
3. 6th Congress on Soil and Water Resources with International Participation . 12-14 November 2019, IZMIR, Turkey. (Organization committee)
4. Ministry of Agriculture And Fishing Of Morocco Through The National Institute For Agricultural Research (INRA), South-South Knowledge Exchange and Coordination Workshop, Water Resources and Irrigation Systems. 12- 14 Ekim, 2016, Morocco.