



TAGEM
R&D AND INNOVATION

International Agricultural Research And
Training Center / İZMİR

ÜMIT ALKAN, PhD. Agricultural Engineer

EDUCATION

- **Assoc. prof**
 - **PhD** 2013-2022 Ege University
Farm Structures and Irrigation
 - **MSc** 2011-2013 Adnan Menderes Üniversitesi
Farm Structures and Irrigation
 - **Bachelor's Degree** 2005-2010 Ege University
Ziraat Fakültesi
- LANGUAGE** İngilizce UDS 73,75

CAREER

- 2010-2015 Research Asistant, Adnan Menderes Universty,
Faculty of Agriculture, Biosystem Engineering, AYDIN.
- 2015-on going, Engineer, International Agricultural Research
And Training Center, Menemen/İZMİR

ABOUT ME

He was born in Manisa in 1985. In 2010, he graduated from Ege University Faculty of Agriculture.

Between 2010-2015, he worked as a research assistant at Adnan Menderes University, Faculty of Agriculture, Department of Biosystem Engineering, on issues related to agricultural structures.

In 2015, he transferred to the Menemen International Agricultural Research and Training Center and still continues his research activities on drainage and land reclamation.

CONTACT

📍 Camikebir Mah. Maltepe Yolu No: 27/1
Menemen-İzmir TURKEY 35660 TÜRKİYE

🌐 umit.alkan@tarimorman.gov.tr

☎ 0232 831 10 52



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• **PROJECTS**

• **Projects Conducted**

1. Determination and Development of Cold Storage Buildings in Aydın Province in terms of Construction Practices. Researcher, ZRF-12029 Adnan Menderes University, Scientific Research Project. (ADU SRP-Assistant Researcher)
2. Determination of Plant Nutrient and Potential Toxic Element Contents of Soils under Cultivation in İzmir, Manisa and Aydın Provinces, Establishment of a Database and Mapping, (GDARP-Assistant Researcher)
3. Determination of Effect of Different Micro Catchment Water Harvesting Techniques on Soil Moisture and Sediment Control (GDARP-Assistant Researcher)
4. Main Project: Under Limited Water Conditions Created Water Saving Irrigation Program for Plant Irrigation. Sub Project: Determination of water consumption of alfalfa with irrigated subsurface drip irrigation (GDARP-Assistant Researcher)
5. The Determination of Drip Irrigation System's Technical and Economic Performance Established Manisa. (GDARP-Assistant Researcher)
6. Main Project: Under Limited Water Conditions Created Water Saving Irrigation Program for Plant Irrigation. Sub Project: Determination of Irrigation -Program of Tomato irrigated with Subsurface Drip Irrigation System (GDARP-Assistant Researcher)
7. Investigation Of The Possibility Of Using Drip Irrigation In Rice (GDARP-Assistant Researcher)

▪ **Ongoing Projects**

1. Determining Sedimentation and Flow Performances of Different Drain-Envelope Material Combinations Under Laboratory Conditions (GDARP-Project Leader)
2. Determination of Water Quality of Eşen Stream in the Western Mediterranean Basin and its Evaluation in terms of Agricultural Irrigation, (GDARP-Assistant Researcher).
3. PRIMA Project, REACT4MED Inclusive Outscaling of Agro-ecosystem REstoration ACTions for the MEDiterranean, Hellenic Mediterranean University, 2022. (EU-Assistant Researcher)
4. Guided Project, 2021-2024, "Developing a Digital Irrigation Management System for Wheat Crops in the Aegean Region", (GDARP-Assistant Researcher)
5. Guided Project, 2021-2024, "Developing a Digital Irrigation Management System for Corn Plants in the Aegean Region", (GDARP-Assistant Researcher)
6. Guided Project, 2022-" Investigating the Use of Marginal Water in Agricultural Irrigation and Determining Its Contribution to the Circular Economy", (GDARP-Assistant Researcher).



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• **PUBLICATIONS**

• **INTERNATIONAL ARTICLES AND PAPERS**

• **Articles Published in International Journals**

- Koca, Y. O., Kaptan, M. A., Ereku, O., **Alkan, Ü.**, 2015. Effects of extra potassium supply on corn yield and seed quality under deficit irrigation conditions Scientific Papers. Series A. Agronomy.

• **International Papers, Seminars, etc.**

1. **Alkan, Ü.**, Aşık, Ş., Öztürk Alkan, İ., 2021. The Importance of Envelope Material in tube Drainage Systems and the New Generation of Envelope Materials, 3. International Agricultural Biological and Life Science Conference (AGRİBİOL). 1-3 September 2021, Edirne.
2. Gunduz, M., Tarı Akap, P. Korkmaz, N., **Alkan, Ü.** 2021. Temporal Change of Ground Water Level and Quality of Agricultural Fields in the Left Bank Irrigation Network of the Menemen Plain. III. Balkan Agriculture Congress. 29 August-1 September 2021. Edirne.
3. Yüzbaşı Ş., Aras, S., Şen,S., Özçelik,Ş., **Alkan, Ü.**, Gündüz M., 2019. Effects Of Different Subsurface Drip Irrigation Applications On Yield And Quality Parameters Of Alfalfa, International Conference on Food And Agricultural Economics, 25-26 April, 2019 Antalya
4. Şen, S., **Alkan, Ü.**, Yılmaz, G., Topdemir, 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.
5. Aras S., Yüzbaşı, Özçelik Ş., Candan N., **Alkan Ü.**, Gündüz M., Tarı Akap P., Şen F., 2019. 3rd Effect of Different Subsurface Drip Irrigation Applications on Some Quality Parameters of Tomato. International Conference on Food And Agricultural Economics, 25-26 Nisan, 2019 Antalya. (Poster paper)
6. Şen, S., Yılmaz, G., Topdemir, 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

• **NATIONAL ARTICLES AND PAPERS**

• **Articles Published in National Journals**

1. Şen, S., Yılmaz, G., Topdemir, 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

• **International Papers, Seminars, etc.**

1. Yılmaz, E., Alkan, Ü., 2014. Determination of water-yield relationship and assessment of different irrigation application for Olive 'Olea Europaea L. Cv.' in Çine Province. Oral presentation, 4. National Olive Student Congress. 28-30 May, KONYA.
2. Alkan, Ü., Sezgin, F., Yılmaz, E., 2014. Major problems encountered in the operation of Cold Storage Building in Aydın Region. Poster, 12th National Irrigation and Agricultural Structures Symposium, 21-23 May, TEKİRDAĞ.
3. Alkan, Ü., Yılmaz, E., 2014. Structural Problems of Olive Processing and Storage Facility in Aydın Region. Poster, 12th National Irrigation and Agricultural Structures Symposium, 21-23 May, TEKİRDAĞ.
4. Alkan, Ü., Sezgin, F., 2012. Basic Construction Designing Factors for Olive Treatment and Storage Facilities. Poster, 3. National Olive Student Congress. 16-18 May, AYDIN.
5. Alkan, Ü., Sezgin, F., 2012. Importance of Water Harvesting in terms of Olive Production. Poster, 3. National Olive Student Congress. 16-18 May, AYDIN.



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- **OTHER PUBLICATIONS**

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

1. Determination and Development of Cold Storage Buildings in Aydın Province in terms of Construction Practices. 2013, Adnan Menderes University, Scientific Research Project. MSc Thesis.
2. Özden, N., Uslu, İ., Sökmen, Ö., Aras, S., Alkan, Ü., Şen, O. F., Şen, S., Candan, N., Metinoğlu, F., Rahmanoğlu, N., Göçmez, S. 2018. Determination of Plant Nutrient and Potential Toxic Element Contents of Soils under Cultivation in Izmir, Manisa and Aydın Provinces, Establishment of a Database and Mapping, (Project Result Report).
3. Determination Of Flow And Sediment Performances Of Different Envelope Materials In Pipe Drainage Systems Under Laboratory Conditions.2022, Ege Universty, Scientific Research Project, PhD. Thesis.



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

1. "FREEWAT-FreeOpen Software Tools for Water Management" , HORIZON 2020 Education Programme, 2017, Erciyes Universty, Teknopark, Kayseri.
2. 'Water Reclamation and Reuse' (TÜBİTAK 1003 project, Spring School Course)2018, Ege Universty.
3. '7th International Course on Sustainable Irrigation Management' Course, 2021, IARTC