



**TAGEM**  
R&D AND INNOVATION

INTERNATIONAL AGRICULTURAL RESEARCH AND  
TRAINING CENTRE/İZMİR

## Perihan TARI AKAP PhD. Agricultural Engineer

### EDUCATION

- Assoc. prof**
- PhD** 2011-2022 Ege University  
Farm Structure and Irrigation
- MSc** 2018-2011 Ege University  
Farm Structure and Irrigation
- Bachelor's Degree** 2003-2008 Ankara Üniversitesi  
Ziraat Fakültesi
- LANGUAGE** English UDS70  
Deutsch Sprach Diploma

### CAREER

- 2011-.... Research Engineer, International Research and Trainin Center, İZMİR
- 2011-2011 Research Engineer , Soil and Water Resources Research Istitute, İZMİR


### ABOUT ME

She was born in 1984 in Izmir. After completing her secondary education at İzmir Yunus Emre Anatolian High School, she started her graduate education at Ege University Faculty of Agriculture. Her master's degree, she researched the possibilities of using treated wastewater in recreational areas, and continued with the same topic in her doctorate, researching the usability of treated wastewater in vegetable irrigation. She has been working as a research engineer at İzmir Menemen International Agricultural Research and and Training Center since 2011.

### CONTACT

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# Perihan TARI AKAP PhD. Agricultural Engineer



## ▪ **PROJECTS**

### ▪ **Projects Conducted**

1. Investigation Of The Possibility Of Using Drip Irrigation In Rice in Menemen Plain
2. Determining Sedimentation and Flow Performances of Different Drain-Envelope Material Combinations Under Laboratory Conditions
3. Determination of Irrigation -Program of Tomato irrigated by Subsurface Drip Irrigation System
4. The Determination of Drip Irrigation System's Technical and Economic Performance Established Manisa
5. Farming Tools for External Nutrient Inputs and Water Management- FATIMA
6. Investigation of Effects of Different Irrigation Schedules on Yield and Some Plant Growth Parameters of Second Crop Corn and Test of Ceres-Maize Crop Growth Simulation Model on Menemen Plane
7. The Determination of Treated Waste Water's Usability for Pepper and Lettuce Irrigate by Different Irrigation Methods
- 8- The Determination of Treated Waste Water's Usability for Irrigation

### ▪ **Ongoing Projects**

- 1- Inclusive Outscaling of Agro-ecosystem Restoration Actions for the Mediterranean (REACT4MED)-PRIMA .Section 1 Management of Water
- 2- Investigating the Use of Marginal Water in Agricultural Irrigation and Determining Its Contribution to the Circular Economy (MARSUDE)
- 3- Development of Digital Irrigation Management System for Wheat in Aegean Region
- 4- Development of Digital Irrigation Management System for Maize in Aegean Region
- 5- Investigation of Use Efficiency of Differently Treated Blackwaters in Agriculture: Effects of Typic Xerofluent on Some Soil Properties and Corn Yield
- 6- Determination of Water Quality of Eşen Stream in the Western Mediterranean Basin and its Evaluation in terms of Agricultural Irrigation



# Perihan TARI AKAP PhD.

## Agricultural Engineer



- **PUBLICATIONS**
- **INTERNATIONAL ARTICLES AND PAPERS**
- **Articles Published in International Journals**
- **International Papers, Seminars, etc.**

- GUNDUZ, M., **TARI AKAP, P.** SEN,S., ARAS,S. ve YUZBASİ,S 2019. The Change of Some Physical and Chemical Properties of Agricultural Lands in the Far Sea Regions of the Menemen Plain according to Soil Layers. International Agriculture and Forestry Congress. Hasat. 21-23 Haziran 2019. Ankara.
- GUNDUZ, M., **TARI AKAP, P.** SEN,S., OZCELIK, S ve GOCMEZ, S 2019. The Effects of Irrigation Applications With Refined Municipal Waste Water on Some Soil Microbiology and Biochemical Properties. International Agriculture and Forestry Congress. Hasat. 21-23 June 2019. Ankara
- GUNDUZ, M., **TARI AKAP, P.** SEN, S., KORKMAZ. N ve OZDEN, N, 2019. Determination of productivity status of agricultural lands south of Gediz River in Menemen Plain. 8. National Plant Nutrition and Fertilizer Congress. Antalya. (Poster)
- GUNDUZ, M., **TARI AKAP, P.** SEN, S. 2019. Productivity Status of Agricultural Lands Near the Sea in the Left Bank Irrigation of the Menemen Plain. 1 st International Erciyes Agriculture, Animal and Food Sciences Conference (AgAnFoS2019). 24-27 April 2019. Erciyes University, Kayseri-Turkiye (poster)
- GUNDUZ, M., **TARI AKAP, P.** SEN, S. KORKMAZ. N ve ASIK, S. 2019. Soil Layers' Boron situation of Agricultural Areas close to the Sea and inland of Menemen Plain. 1 st International Erciyes Agriculture, Animal and Food Sciences Conference (AgAnFoS2019). 24-27 April 2019. Erciyes University, Kayseri-Turkiye
- GUNDUZ, M., **TARI AKAP, P.**, SEN, S ve ARAS, S. 2019. The Statistical Effect of Irrigation with Water from Different Sources on the Relationships Between Some Soil Properties. 6 th International Soil and Water Resources Congress, 12-14 November 2019, İzmir. (Poster)
- GUNDUZ, M., **TARI AKAP, P.** KORKMAZ. N. ÖZCELİK, S ve ASIK, S. 2019. Contribution of High Groundwater Level to Cotton Water Consumption in the Far Sea Regions of the Menemen Plain. 6 th International Soil and Water Resources Congress, 12-14 November 2019, İzmir.
- TARI AKAP, P.**, GUNDUZ, M., ASIK, S., OZCELIK, S. 2019. Patogenic Contamination On Lettuce And Soil Irrigated By Treated Domestic Waste Water. Toprak Su Journal. special issue p(46-50) Ankara
- ARAS, S. YUZBASİ, S. OZCELIK, S. CANDAN, N. ALKAN, U. GUNDUZ, M. **TARI AKAP, P.** ŞEN, F. Effect of Different Irrigation Levels Effect Applied By Subsurface Drip Irrigation on Vitamin C Content of Tomato. 6 th International Soil and Water Resources Congress, 12-14 November 2019, İzmir.
- TARI AKAP, P.**, GUNDUZ, M., ASIK, S., OZCELIK, S. 2019. Patogenic Contamination On Lettuce And Soil Irrigated By Treated Domestic Waste Water. 6 th International Soil and Water Resources Congress, 12-14 November 2019, İzmir.



## Perihan TARI AKAP PhD. Agricultural Engineer



### ▪ **Articles Published in National Journals**

- 1- **TARI AKAP, P.**, GUNDUZ, M., ASIK, S., OZCELIK, S. 2019. Patogenic Contamination On Lettuce And Soil Irrigated By Treated Domestic Waste Water. Toprak Su Journal. special issue p(46-50) Ankara
- 2- KORKMAZ, N., GUNDUZ, M., **TARI, P.** 2012. Agricultural Irrigation with Treated Municipal Waste Water, Journal of Aegean Agricultural Research Institute, 151(27-36), İzmir

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

1. **Tarı, P.**, Kukul, Y.S., Özçakal, E., Anaç S. 2011 Artırılmış Atık Suların Yeşil Alan Sulamasında Kullanılması: Artur Yazlık Sitesi Örneği, II. Ulusal Toprak ve Su Kaynakları Kongresi, Ankara. (Poster Presentation)
2. **Tarı Akap, P.**, Aras, S., Rahmanoğlu, N. (2014). Evsel Kaynaklı Arıtılan Atık Suların Sulamada Kullanılabilirliği Üzerine Bir İnceleme, 12. Ulusal Kültürteknik Sempozyumu, 21-23 May, Tekirdağ (Poster Presentation)

### ▪ **OTHER PUBLICATIONS**

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

1. **Tarı Akap, P.**, Investigation of Utilization Possibilities of Treated Domestic Wastewater in Paste Pepper (*Capsicum annum L.*) Irrigation, **Doctorate Thesis**, 2022, Bornova-İZMİR.
2. **Tarı Akap, P.**, Gündüz, M., Özçelik, Ş., Alkan, Ü., Albayram Doğan, Z., Investigation Of The Possibility Of Using Drip Irrigation In Rice in Menemen Plain , **Final Report**, 2021, Menemen-İZMİR:
3. **Tarı Akap, P.**, Korkmaz, N., Gündüz, M., Özçelik, Ş., Şen, S., Aras, S., Yüzbaşı, Ş., Rahmanoğlu, N., Aşık, Ş., Şen, f., Ateş, M. (2018), Use of Treated Wastewater with Different Irrigation Methods in the Cultivation of Pepper and Lettuce, Publication No: UTAEM 2018/01. (**Final Report**) Menemen-İZMİR
4. **Tarı, P.**, 2011, An Analysis on the Use of Treated Waste Water in Irrigation (**Master's Thesis**), 2011, Bornova İZMİR



## Perihan TARI AKAP PhD. Agricultural Engineer

**TAGEM**  
R&D AND INNOVATION

- **Membership, Training, Course, Meeting, Congress, Symposium and Other Activities**
  1. Wheat Phenotyping Workshop
  2. FREEWAT Project Q-GIS Workshop
  3. ZMO İZMİR