



**TAGEM**  
R&D AND INNOVATION

INTERNATIONAL AGRICULTURAL RESEARCH  
AND TRAINING CENTER/ İZMİR

## SİNAN ARAS, M.Sc. Agricultural Engineer

### EDUCATION

- Assoc. prof**
- PhD** 2020-Continue Ege University  
Agricultural Structures and Irrigation
- MSc** 2011-2013 Ege Üniversitesi  
Agricultural Structures and Irrigation
- Bachelor's Degree** 2005-2009 Akdeniz Üniversitesi  
Faculty of Agriculture
- LANGUAGE** İngilizce IELTS 5,5 / YDS 81,25

### CAREER

- 2011-Continue, Engineer, UTAEM, International Agricultural Research and Training Center- İZMİR
- 2010-2011 Engineer, Directorate of Soil and Water Resources Research Institute (Abolished), İZMİR
- 2006-2010 Engineer, Ağrı Directorate of Provincial Agricultural and Forestry

### ABOUT ME


He was born in Tutak in 1984. In 2006, He graduated from Faculty of Agriculture Department of Agricultural Irrigation and Land Reclamation. In 2018 He finished his master from Ege University. He is continuing his Ph.D education at Ege University.

He works on agricultural water management.

### CONTACT

Üniversiteler Mah. Dumlupınar Bulv.  
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## Agricultural Engineer



### ▪ **PROJECTS**

#### ▪ **Projects Conducted**

1. Investigation of the Effects of Different Irrigation Programs on Yield and Some Growth Parameters of Second Crop Corn Plant in Menemen Plain and Testing with Ceres-Maize Plant Growth Model
2. Determination of the Usability of Treated Waste Water with Different Irrigation Methods for Irrigation of Pepper and Lettuce
3. Determination of Plant Nutrient and Potential Toxic Element Contents of Agricultural Soils in İzmir, Manisa and Aydın Provinces, Establishment of a Database and Mapping
4. National Product Monitoring and Yield Estimation Project, Yield Estimation and Yield Estimation of Corn Plant in Menemen Plain
5. Determination of Water Consumption of Alfalfa Irrigated with Subsurface Drip Irrigation
6. Irrigation Program of Tomatoes Irrigated with Subsurface Drip Irrigation in Menemen Conditions
7. Determination of the effects of limited irrigation in different irrigation methods on yield, quality and water use efficiency of soybean in second crop soybean agriculture in the Aegean Region.
8. Investigation of the Usage Possibilities of Drip Irrigation Systems in Rice in Menemen Plain Conditions

#### ▪ **Ongoing Projects**

1. Investigation of the Efficiency of Subsurface Drip Irrigation Systems in Viticulture
2. Determination of Sedimentation and Flow Performance of Different Drain-Envelope Material Combinations under Laboratory Conditions
3. Collection, Evaluation and Selection of Rhizobium Bacterial Strains from Aegean Region
4. Determination of Agricultural Nitrate and Phosphorus Pollution Using ArcSWAT Method in Menemen Plain-Sparse Secondary Irrigation Area Example



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### ▪ **PUBLICATIONS**

#### ▪ **INTERNATIONAL ARTICLES AND PAPERS**

##### ▪ **Articles Published in International Journals**

1. Mousavizadeh R., Tabatabaei S.H., Nourmahnad n., Aras S., 2021. Simulation of Runoff and Sediment in a Water Repellent Soil under Different Rainfall Intensity, Soil Water Journal, Özel Sayı, 46-55, 2021.
2. Uslu İ., Çelik Z., Aras S., Karagül V., Etöz M., Ok Ö. A., 2021, Mısır Ekim Alanları ve Dane Veriminin Uzaktan Algılama ve Hybrid-Maize Bitki Modeli ile Belirlenmesi. Anadolu Dergisi, Cilt:31, Sayı:2, s:202-211

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

1. 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 Nisan, 2019 Antalya. (Presentation Paper)
2. Aras S., Yüzbaşı Ş., 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. (Presentation Paper)
3. Aras, S., Âşık, Ş., 2018. Determination Performance and Calibration Equations of Neutron Moisture Gauge, Capacitance Sensor and Tensiometer's for Menemen Plain Soils. International Congress on Agriculture and Animal Sciences (ICAGAS). 7-9 November 2018. Alanya. (Presentation Paper)
4. Tarı Akap, P., Aras, S., Kahraman, D., 2014 . Subsurface Irrigation as a Promising Approach to Reduce Pathogenic Impact When Using Wastewater. Bridging the gap between increasing knowledge and decreasing resources, Tropentag, September 17-19, 2014, Progue, Czech Republic. (Presentation Paper)
5. Tarı Akap, P., Aras, S., Yuzbaşı, Ş. 2014. The Investigation of Pathogenic Situation of Soil Irrigated by Trated Wastewater. 9th International Soil Congress on the Soul of Soil and Civilization. 14- 16 October 2014, Side, Antalya. (Presentation Paper)
6. Tarı Akap, P., Aras, S., Kahraman, D. 2014. The Determination Of Pathogenic Contamination of Lettuce Irrigated By Treated Waste Water. 8th Egerton University International Congress, Kenya.

#### ▪ **NATIONAL ARTICLES AND PAPERS**

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



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

1. Özçelik Ş., Aras S., Yüzbaşı Ş., Akkuzu E., Mengü G. P., 2019. Farklı Sulama Programlarının II.Ürün Mısır Bitkisinin Klorofil İçeriği ve Yaprak Alan İndeksi Üzerine Etkisi, 6. Uluslararası katılımlı Toprak ve Su Kaynakları Kongresi, 12-14 Kasım 2019, İzmir.
2. Gündüz M., Tarı Akap P., Şen S., Aras S., Yüzbaşı Ş., 2019. Menemen Ovasında Denize Uzak bölgelerdeki Tarım Alanları Topraklarının Bazı Fiziksel ve Kimyasal Özelliklerinin Toprak Katmanlarına Göre Değişimi. Hasat Kongresi. Ankara
3. Gündüz M., Tarı Akap P., Şen S., Aras S., 2019. Farklı Kaynaktan Alınan Sularla Yapılan Sulamanın Bazı Toprak Özellikleri Arasındaki ilişkilere İstatiksel Etkisi. 6. Uluslararası Katılımlı Toprak ve Su Kaynakları Kongresi. Menemen.
4. Aras S., Yüzbaşı Ş., Özçelik Ş., Candan N., Alkan Ü., Gündüz M., Tarı Akap P., Şen F., 2019 Effect of Different Irrigation Levels Effect Applied By Subsurface Drip Irrigation on Vitamin C Content of Tomato, 6. Uluslararası katılımlı Toprak ve Su Kaynakları Kongresi, 12-14 Kasım 2019, İzmir.
5. Mousavizadeh R., Tabatabaei S.H., Nourmahnad n., Hosseinpur A., Aras S., 2019 Effect of Different Irrigation Levels Effect Applied By Subsurface Drip Irrigation on Vitamin C Content of Tomato, 6. Uluslararası katılımlı Toprak ve Su Kaynakları Kongresi, 12-14 Kasım 2019, İzmir.
6. Asgari K., Tabatabaei S.H., Najafi P., Pessarakli M., Aras S., 2019 Effect of Different Irrigation Levels Effect Applied By Subsurface Drip Irrigation on Vitamin C Content of Tomato, 6. Uluslararası katılımlı Toprak ve Su Kaynakları Kongresi, 12-14 Kasım 2019, İzmir.
7. Tarı Akap, P., Aras, S., Rahmanoğlu, N. 2014. Evsel Kaynaklı Arıtılan Atık Suların Sulamada Kullanılabilirliği Üzerine Bir İnceleme, 12. Ulusal Kültürteknik Sempozyumu (Poster), 21-23 Mayıs, Tekirdağ

### ▪ **OTHER PUBLICATIONS**

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

1. Determination of Calibration Curves of Some Indirect Moisture Measuring Instruments in Menemen UTAEM Soil Conditions (Master Thesis)



## SİNAN ARAS, M.Sc. Agricultural Engineer



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

1. TMMOB Chamber of Agricultural Engineers
2. Using Remote Sensing Techniques and Modeling Studies in Determining Crop Water Consumption in Agricultural Irrigation, Washington State University / Pullman-ABD, 29/12/2016-29/03/2017
3. International Training Workshop on Irrigation and Fertilization Management for Cotton Growth, Dicle University / Diyarbakır, 24-28/09/2012
4. Reuse of Waste Water, European Business Academy, Berlin/Almanya, 01-21/07/2012
5. TS EN 9001 Quality Management System Documentation Training, TSE Personnel and System Certification Center, İzmir, 11/05/2012
6. Measurement Uncertainty Training, TSE Calibration Center Presidency, İzmir, 09-10/05/2012
7. TS EN 9001 Quality Management System Basic Training, TSE Personnel and System Certification Center, İzmir, 07-08/05/2012
8. Method Validation and Measurement Uncertainty Calculation in Chemical Analysis, Sart Consulting Education Engineering Construction Agriculture Industry and Trade. Ltd. Sti., UTAEM-İzmir, 10-11/04/2012
9. TS EN ISO/IEC 17025 General Conditions for Competence of Experiment and Calibration Laboratories, Sart Consulting Education Engineering Construction Agriculture Industry and Trade. Ltd. Sti., UTAEM-İzmir, 09/04/2012
10. Statistic-1, TAEM/Ankara, 24-28/10/2011