



TAGEM
R&D AND INNOVATION

TRANSITIONAL ZONE AGRICULTURAL
RESEARCH INSTITUTE / ESKISEHIR

ERDINC SAVASLI, PhD Agricultural Engineer

EDUCATION

- PhD** Gaziosmanpasa University
2005- Soil Science Department of Agriculture Faculty
- MSc** Gaziosmanpasa University
1997 Soil Science Department of Agriculture Faculty
- Bachelor's Degree** Cumhuriyet University
1990-1994 Agriculture Faculty
- LANGUAGE** English KPDS 61


CAREER

- 2000 - Agricultural Engineer, Transitional Zone Agricultural Research Institute (Agronomy Department) ESKISEHIR/TURKIYE
- 1994-2000 Research Assistant, Gaziosmanpaşa University, Department of Soil Science, TOKAT /TURKIYE


ABOUT ME

I was born in 1969 in Eskişehir. I graduated from the Soil Science Department of Agriculture Faculty of Gaziosmanpaşa University in 1994. He is a Researcher at the Transitional Zone Agricultural Research Institute in the Department of Agronomy. He conducts research on wheat agronomy, soil fertility, plant nutrition (N, Zn, Se), wheat drought stress and physiology. He has experience as a researcher on the National TUBITAK 1007 project "In-season Nitrogen Management Systems on Bread Wheat Yield and Quality in Eskişehir Conditions" and "the International HarvestPlus-Zinc Fertilizer Project". He carries out studies on calibration modeling for nitrogen fertilization in wheat at Eskişehir conditions.

CONTACT

 Ziraat cad. No:396 (Karabayır yolu 6. km)
Tepebaşı – Eskişehir
26001 TÜRKİYE

 erdinc.savasli@tarimorman.gov.tr

 +90 222 324 03 00



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▪ **PROJECTS**

▪ **Projects Conducted**

1. Determination of drought tolerance parameters on wheat, 2005
2. Determination of Relationship Between Different Nitrogen Doses, Sowing Time, Seed Rate with Quality Criteria on Bread Wheat, 2007
3. Study of Opium Poppy Cultivation Techniques, 2007
4. Investigation of Bed-Planting Methods on Irrigated Wheat in Transitional Zone, 2005
5. Determination of Alternative Planting Methods to Stubble Burning on Irrigated Wheat in Transitional Zone, 2007
6. The Effect Of Source, Rate And Timing Of Spring Top dressing Of N Fertilizer On Grain Yield And Some Quality Parameters Of Winter Wheat (Ph.D. Thesis project) 2005 **(Project Leader)**
7. National Sunn pest (Eurygaster integriceps) Project, DPT, 200K120160, 2010
8. A Research On The Effects of In-Season Nitrogen Management Systems On Bread Wheat Yield and Quality in Eskisehir Conditions. 106G111 TUBITAK-1007 (2007-2011)
9. Determination of Physiological Parameters usable in Bread Wheat Breeding (2014) **(Project Leader)**
10. The Effect of Deep Nitrogen Fertilizer Application on Grain Protein Content Of Bread Wheat 2013-2016) **(Project Leader)**
11. Determination of phenotypic variation and genotype x environment interaction in a recently developed mapping population of bread wheat for agronomic, quality and disease-resistance traits. TÜBİTAK (1001), (2016)
12. Innovation of Transitional Zone Agricultural Research Institute Soil-Plant-Water Analysis and Physiology Laboratory project BEBKA (2015)
13. Determination of Wheat Boron Nutritional Status Ankara and Eskisehir Regions and Effect of different Boron Application on Wheat Yield and Quality. National Boron Res. Inst. 2013-2016
14. Applied different amounts of phosphorus effects on biodiesel yield and quality in safflower (2016)
15. "Enhancing Productivity of Wheat-Legume Cropping System for Smallholder Farmers in West Asia and North Africa" 2014
16. HarvestPlus-Zinc Fertilizer Project, (2nd Phase) (2015-2017) Prof. Dr. İsmail Çakmak (Sabancı Üniv.)
17. HarvestPlus-Zinc Fertilizer Project, (3rd Phase) (2015-2017) Prof. Dr. İsmail Çakmak (Sabancı Üniv.)
18. HarvestPlus-Zinc Fertilizer Project, (4th Phase) (2018-2021) Prof. Dr. İsmail Çakmak (Sabancı Üniv.)
19. Calibration of Nitrogen Fertilization on Wheat in Eskisehir Conditions (1st Phase) (2015) **(Project Leader)**
20. Calibration of Nitrogen Fertilization on Wheat in Eskisehir Conditions (2nd Phase) (2021) **(Project Leader)**
21. Determination of morphological and physiological traits in Transitional Zone Agricultural Research Institute winter bread wheat breeding material. (2020)
22. "Smart Nitrogen Fertilization" TUGEM (2020)



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▪ Ongoing Projects

1. Solutions for improving Agroecosystem and Crop Efficiency for water and nutrient use, Horizon 2020, Prof.Dr. İsmail Çakmak (Sabancı Üni.) (2017-2022)
2. Variable Ratio Mineral Fertilizer Application in Deep Chillies. TUBITAK 1501, Hisarlar Makine A.Ş and GKTAEM (2022)
3. Enrichment of Çukurhisar and Söğütönü Breads Widely Consumed in Eskişehir Province in terms of Zinc and Selenium with Whole Wheat Flour Obtained by Biofortification.Osmangazi Uni. BAP project Ass. Prof. Dr.Yaşar KARADUMAN (2022)
4. Determination of morphological and physiological traits in Transitional Zone Agricultural Research Institute winter bread wheat breeding material. (2022-2027)
5. Investigation of Sugar Beet Production and Water Saving Opportunities by Mobile Drip Irrigation TÜBİTAK 1001 Doc.Dr. İsmail TAS

▪ PUBLICATIONS

▪ INTERNATIONAL ARTICLES AND PAPERS

▪ Articles Published in International Journals (SCI)

1. Biofortification of wheat with zinc through zinc fertilization in seven countries. Q. Zou, Y. Q. Zhang, A. Rashid, H. Ram, **E. Savasli**, R. Z. Arisoy, I. Ortiz-Monasterio, S. Simunji, Z. H. Wang, V. Sohu, M. Hassan, Y. Kaya, O. Onder, O. Lungu, M. Yaqub Mujahid, A. K. Joshi, Y. Zelenskiy, F. S. Zhang, I. Cakmak. Plant Soil, 361:119–130. 2012.
2. Biofortification of wheat, rice and common bean by applying foliar zinc fertilizer along with pesticides in seven countries. Ram, H.; Rashid, A.; Zhang, W.; Duarte, A.P.; Phattarakul, N.; Simunji, S.; Kalayci, M.; R. Freitas, B. Rerkasem, R. S. Bal, K. Mahmood, **E. Savasli**, O Lungu, Z. H. Wang, V. L. N. P. de Barros, S. S. Malik, R. Z. Arisoy, J. X. Guo, V. S. Sohu, C. Q. Zou & I. Cakmak .PlantSoil. 403, 389–401,2016.
3. Iodine biofortification of wheat, rice and maize through fertilizer strategy" I Cakmak, LRG Guilherme, A Rashid, KH Hora, A Yazici, **E Savasli**, M Kalayci, Y Tutus, P Phuphong, M Rizwan, FAD Martins, GS Dinali, L Ozturk Plant Soil, Vol.:418 Issue:1-2 Pages:319-335 DOI: 10.1007/s11104-017-3295-9, 2017.
4. Simultaneous biofortification of wheat with zinc, iodine, selenium, and iron through foliar treatment of a micronutrient cocktail in six countries. Zou, C., Du, Y., Rashid, A., Ram, H., **Savasli, E.**, Pieterse, P.J., Ortiz-Monasterio, I., Yazici, A., Kaur, C., Mahmood, K., Singh, S., Le Roux, M.R., Kuang, W., Onder, O.,Kalayci, M., Cakmak, I.,J. Agric. Food Chem. 67 (29), 8096–8106. <https://doi.org/10.1021/acs.jafc.9b01829>.2019.
5. Fate and bioaccessibility of iodine in food prepared from agronomically biofortified wheat and rice and impact of cofertilization with zinc and selenium. Cakmak, I., Marzorati, M., Van den Abbeele, P., Hora, K., Holwerda, H. T., Yazici, M. A., **Savasli E.**, Neri J., Du Laing G., J. Agric. Food Chem. 68, 1525–1535. doi: 10.1021/acs.jafc. 9b05912. 2020.
6. Feeding Zinc-Biofortified Wheat Improves Performance, Nutrient Digestibility, and Concentrations of Blood and Tissue Minerals in Quails 2021. Sahin, N., Kucuk, O., Orhan, C. **Savasli, E.**, Cakmak İ., Sahin, K., 2021Biol Trace Elem Res . <https://doi.org/10.1007/s12011-021-02955-0>. 2021.
7. Prediction of grain protein content and gluten quality of bread wheat in the early vegetation period by optical sensors. **Savasli, E.**, Karaduman, Y., Önder O., Ateş Ö., Journal of Cereal Science 102(6) 103354 <https://doi.org/10.1016/j.jcs.2021.103354>. 2021.



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■ International Papers, etc.

1. Effect Of Nitrogen And Phosphorus Fertilization On The Yield And Nutrient Status Of Rice Crop Grown On Artificial Siltation Soil From The Kelkit River A. R., Brohi, M. R., Karaman, A., Aktas, **E., Savasli** Türk. J. Agric. For., 22, 585-592. TÜBİTAK Tr. J. of Agriculture and Forestry, 1998.
2. Effect Of Potassium And Magnesium Fertilization On Yield And Nutrient Content Of Rice Crop Grown On Artificial Siltation Soil A. R., Brohi, M. R., Karaman, A., Aktas, **E., Savasli** Türk. J. Agric. For., 24, 429-436. TÜBİTAK Tr. J. of Agriculture and Forestry, 2000.
3. The Differences in Mineral Content of Apple Leaves Associated With Fruiting and non Fruiting of Biennial Bearing Trees. Akca, Y., Brohi, **Savasli, E.** Asian Journal of Chemistry Vol: 17, no:4, 2379-2384, 2005.
4. Some Practices Using Glutopex Tester: A High Shear Gluten Quality Evaluation Method. Karaduman, Y., **Savasli, E.**, Conference: 13 th Inter. Gluten Workshop (IGW) Book of Abst. at: -Mexico Vol.: p 115. 2018.
5. Effects of different soil tillage systems on yield of winter wheat and summer crop under irrigated condition of Central Anatolia, Turkey. **Savasli E.** Strategies for the promotion of Conservation Agriculture in Central Asia Proceedings of the International Conference, FAO page (49-58) 5-7 September, Tashkent, Uzbekistan. Tashkent. <https://doi.org/10.4060/ca8659en>, 2020.
6. Sensor based calibration study for in-season nitrogen management of winter wheat in Turkey, **Savasli, E.**, Onder, O., Cekic, C., Kalayci, H. M., Dayioglu, R., Karaduman, Y., Gokmen, F., Dursun, N., Gezgin, S., Asian Journal of Medical and Biological Research, 6, 2, 204-211. 2020.

■ International Congress, Symposium, Seminars, etc.

1. Response of Rice Plant to Zinc and Phosphorus Fertilizer and Effect of Zn-P Relationship on The Yield of Rice Crop, **E., Savasli**, A.R., Brohi, M.T., Topbaş, 11th International World Fertilizer Congress Fertilization for Sustainable plant production and soil fertility Ghent/Belgium), 7-13 September. -1997
2. Effect Of NP Fertilization On The Yield And Yield Components Of Maize Crop Grown Under Tokat Ecological Conditions. Brohi, A.R., Topbaş, M.T., **Savasli, E.** and Aktas, A XXVIIIth Annual Meeting of ESNA/jointly organised with UIR, working group soil-to-plant transfer, Working Group Soil-Plant-Relationships, Brno (Czech Republic), August 26-29, 1998
3. Effect Of NP Fertilization On The Yield, Yield Components And NPK Content Of Wheat Crop Grown Under Tokat Ecological Conditions. Brohi, A.R., Topbaş M.T., **Savasli, E.** and Aktas, A. XXVIIIth Annual Meeting of ESNA/jointly organised with UIR, working group soil-to-plant transfer, Working Group 3, Soil-Plant-Relationships, Brno (Czech Republic), August 26-29, 1998
4. Effect Of Foliage Fertilizers On Yield And Quality Of Wheat Crop. Brohi, A.R., M.T. Topbaş, **E. Savasli** and A. Aktas 7th International congress of soil science, Uni. of Agriculture Faisalabad, Pakistan, Dec. 9-12, 1998
5. Effect Of Nitrogen Fertilizers (1) On Some Agronomic Parameters and on The Yield Of Wheat Crop **E. Savasli** (1) A. R. Brohi (2) M. R. Karaman (2) S. Gökmen (3) C. Çekiç (4) Revue de Cytologie et Biologie vegetales-Le Botaniste 2005-28 (s.i.): 198, 8211; 207 Amiens-France, 29 August- 2 September 2005
6. Effect Of Nitrogen Fertilizers (2) On Quality Characteristics Of Wheat Crop **Savasli, E.**, Brohi, A.R., Karaman, M.R., Gökmen, S., Dayioglu, R., Önder, O., Revue de Cytologie et Biologie vegetales-Le Botaniste 2005-28 (s. i.): 161 8211; 169 Amiens-France, 29 August- 2 September 2005
7. The Effect of Various Cultural Practices on Zinc Concentrations of Winter Wheat Grains in Central Anatolia. M. Kalayci, C. Cekic, **E. Savasli**, O. Onder, R. Dayioglu, Y. Kaya, A. Taner, A. Yazici, I. Cakmak. ZINC CROPS 2007 "Improving crop production and human health" 24-26 May, Istanbul, Turkey. 2007.
8. The Effects of Soil and Foliar Applications of Zinc on Grain Zinc Concentrations of Wheat and Maize, M.K., Z. Arisoy, C. Çekiç, Y. Kaya, **E. Savasli**, M. Tezel, O. Onder, A. Yazici, I. Cakmak, 3rd International Zinc Symposium Hyderabad, India, 10-14, October 2011



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NATIONAL ARTICLES AND PAPERS

National Congress, Symposium, Seminars, etc

1. Application of Bed Planting Method in Cereals in Central Anatolia Region Cekiç, C. **Savasli, E.**2003, Conservation Tillage and Direct Sowing Workshop,Ege Ün. Zir. Fak. NO: 6 Bornova/ İZMİR, 23-24(Turkish).
2. For sustainable agriculture bed planting method. 2.nd Protective Soil Tillage and Direct Seeding Cekic, C., **Savasli, E.**, Onder, O. and Dayioglu, R., (2007). Workshop n.10 p.149-157 Izmir/Turkey (Or.: in Turkish).
3. Important of in-season nitrogenous fertilizer management in the increasing of nitrogen use activity of the plants. Cekic, C., **Savasli, E.**, Onder, O., Dayioglu, R., Gokmen, F., Dursun, N., Gezgin, S., Kalayci, H.M., (2008).4th National Congress of Plant Nutrition and Fertilizer. p. 83. 8-10 Oct. Konya/Turkey (Turkish).
4. Determination of Relationship sowing date and rate Between the Quality Criteria on Bread Wheat (*Triticum aestivum* L.). Cekic, C., **Savasli, E.**, Onder, O., Dayioglu, R., Karaduman, Y. and Avcioglu, R. (2008) National Grain Symposium. p: 201-209. 2-5 June, Konya/Turkey (Original: in Turkish).
5. Determination of relationship between nitrogen fertilization and some quality parameters on bread wheat. **Savasli, E.**, Cekic, C., Onder, O., Dayioglu, R., Karaduman, Y., Avcioglu, R., Kalayci, H.M. (2010). Ist. National congress of soil and water sources. Page : 611-618, June 1-4, 2010, Eskisehir, Turkey (Turkish).
6. A research on tillering dynamics of some bread wheat varieties grown in Central Anatolian dry conditions. Onder, O., Tolay, I., Cekic, C., **Savasli, E.**, Dayioglu, R., Kalayci, H.M. (2011). Ist International Agriculture Congress of Ali Numan Kirac. April 27-30, 2011. Vol: 1, Page: 781-793. Eskisehir/Turkey (Turkish)
7. The Effects Of Nitrogen fertilization On Seed And Capsule Yields And Morphine Content Of Opium Poppy. **Savasli, E.**, Cekic, C., Onder, O., Dayioglu, R., Camci, H., Kosar F.C., Balci A., Kalayci, H.M. (2011). Ist International Agriculture Congress of Ali Numan Kirac. April 27-30, 2011. Vol: 1, Page: 463-473. Eskisehir/Turkey (Original: in Turkish).
8. Calculating Green Band Normalized Difference Vegetation Index on the Agricultural Area with the Help of Unmanned Aerial Vehicles. Avdan U, Bilge Ö, Resul Ç, **Savasli, E.**, Önder O, 2014. 5. Remote Sensing - CBS Symposium (UZAL-CBS 2014), 14-17 October 2014, İstanbul / Turkey(Original: in Turkish).
9. The effects of high and low molecular weight glutenin subunits and rye translocation on agronomic and quality characteristics in white hard grain bread wheat, Sayaslan,A., Aydın,N., Demir,B., Çığık, C., Bayramoğlu, H.O., Şermet, C., **Savasli,E.**, Önder, O., Özcan, H., Orhan, Ş., Demir. L., 2015. 11. Field Crops Congress, 7-10 September 2015 Çanakkale
10. The effect of root biomass on nitrogen uptake in some recombinant inbred wheat lines. Özdemir, S., **Savasli, E.**, Önder, O., Soylu, S., 2017, 12th Field Crops Congress, p:11, 11-14 Sep.2017, Kahramanmaraş.

Articles Published in National Journals

National Papers, etc

1. Evaluation of Some Bread Wheat Cultivars and Advanced Breeding Lines for Yield, Biomass and Vegetation Index **Savasli, E.**, Cekic, C., Onder, O., Dayioglu, R.,Kalayci,H.M.,5 (2): 33-37, 2012 ISSN: 1308-3945, E-ISSN: 1308-027X, www.nobel.gen.tr(Original: in Turkish). (2012).
2. The Effects of Foliar Nitrogen Treatments at Heading Stage on Grain Protein Contents of Bread Wheat Cultivars. **Savasli, E.**,, Onder,O., Cekic, c., Kalayci,H. M., Dayioglu, R., Karaduman ,Y., Gokmen,F., Dursun,N., Gezgin, S., Selcuk J Agr Food Sci, 31 (1), 45-50. (2017).
3. Effects of nitrogen treatment methods on yield, nitrogen loss and nitrogen uptake efficiency of wheat cultivars. **Savasli, E.**,, Onder,O., Cekic, c., Kalayci,H. M., Dayioglu, R., Gokmen,F., Dursun,N., Gezgin, S.Selcuk J Agr Food Sci, 31 (2), 86-91. (2017).



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National Papers, etc

4. The Effect of Soil and Foliar Urea Application at Heading Stage on Grain Yield and Quality Traits of Bread Wheat (*Triticum aestivum* L.), **Savasli, E.** Önder, O., Karaduman, Y., Dayiođlu, R., Özen, D., Özdemir, S., Akin, A., Tunca, Z. S., Demir, B., Aydın, N., Turkish Journal of Agriculture-Food Science and Technology,7,11,1928-1936. (2019).
5. Calibration Study for Sensor-Based In-Season Nitrogen Management of Irrigated Winter Wheat, **Savasli, E.**, Önder, O., Dayiođlu, R., Özen, D., Özdemir, S., Karaduman, Y., Ateş, Ö., Özsayın, M., Turkish Journal of Agriculture-Food Science and Technology,8,9,1882-1891,(2020).
6. Calibration Optimization For Sensor-Based In-Season Nitrogen Management of Rainfed Winter Wheat in Central Anatolian Conditions. **Savasli E**, Önder O, Çekiç C, Kalaycı HM, Dayiođlu R, Karaduman Y, Gökmen Yılmaz F, Dursin N, Gezgin S. KSU J. Agric Nat 24 (1): 130-140. <https://doi.org/10.18016/ksutarimdogavi.732913>. (2021).
7. Nitrogen Fertilizer Recommendation with Optical Sensor for Bread Wheat Varieties. **Savasli,E.**, Önder,O., Dayiođlu,R., Özen,D., Karaduman,Y., Özdemir,S., Ateş,Ö., Özsayın,M., Yüzüncü Yıl Üniversitesi Tarım Bilimleri Dergisi 31(2):453-465.DOI: 10.29133/yyutbd.726039. (2021).

OTHER PUBLICATIONS

Ph.D. Thesis, Master Thesis, etc.

- 1* Response of Rice Plant to Zinc and Phosphorus Fertilizer and Effect of Zn-P Relationship on The Yield of Rice Crop (**M.Sc. Thesis project**)
- 2*The Effect Of Source, Rate And Timing Of Spring Top dressing Of N Fertilizer On Grain Yield And Some Quality Parameters Of Winter Wheat (**Ph.D. Thesis Project**)

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

1. "Bed Planting and No till Course" 2002 International Maize and Wheat Improvement Center (CIMMYT), El Batan, Texcoco, Mexico.
2. "The Isotope and Radiation Techniques Used in Soil Fertility and Plant Nutrition Research (N-15 ve Notron Prob) Ankara -2002
3. " International Training Course on Bed and Reduced Till Planting Technologies" 4-14 October2004 Şanlıurfa- Diyarbakır
4. "The International Course On Conservation Agricultural Technologies for Rainfed Wheat Production Systems " 26 Semtember-7 October 2005 Ankara-Konya- Eskisehir
5. "Turkish-Israeli workshop on agicultural drought and mitigation" 23 July-3 August 2007 Menemen-İZMİR
6. XVII. International Plant Nutrition Colloquium 19- 22 AUGUST 2013 • ISTANBUL / TURKEY
7. Understanding linear mixed models from the ground up: Statistical tools for the Turkish National Breeding Programs. 2-3 September 2015, Eskisehir, TURKEY
8. Turkey – United Kingdom Workshop ""Wheat Improvement: Opportunities for Collaboration", 23-27 May 2015, Konya / Turkey