



TAGEM
R&D AND INNOVATION

ATATÜRK HORTICULTURAL CENTRAL RESEARCH
INSTITUTE/ YALOVA



Dr. Erdinç Uysal Agricultural Engineer

EDUCATION

- PhD**
2012
Namık Kemal University
Soil Sciences and Plant Nutrition
- MSc**
2004
Uludağ Üniversitesi
Soil Sciences and Plant Nutrition
- Bachelor's Degree**
1999
Gaziosmanpaşa University
Faculty of Agriculture,
Agricultural Economics

CAREER

- 1991-1993
Manisa Poultry Diseases Research and Vaccine
Production Institute
- 1993-1995
Amasya Food Control Laboratory
- 1995-2000
Tokat Food Control Laboratory
- 2000-
Atatürk Horticultural Central Research Institute

ABOUT ME

I was born in 1974 in Merzifon. I graduated from Gaziosmanpaşa University, Faculty of Agriculture in 1999. I received the title of Doctor from Namık Kemal University, Institute of Natural and Applied Sciences, Department of Soil Sciences and Plant Nutrition in 2012.

In 1991, I started my professional life at Manisa Poultry Diseases Research and Vaccine Production Institute. Since 2000, I have been working in the Atatürk Horticultural Central Research Institute, Department of Soil and Water Resources.

CONTACT



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Dr. Erdinç Uysal Agricultural Engineer



▪ **PROJECTS**

▪ **Projects Conducted**

1. Studies on the Evaluations Some Agricultural Wastes for Mushroom (*P. sajor-caju*) Cultivation. (TAGEM-Researcher)
2. Determination Of The Nutritional Status Of Important Sweet Cherry Varieties Grown In The East Marmara Region. (Master of Science's Thesis)
3. The Effect Of Osmotic Conditioning And Different Temperatures On Aging Of Pepper Seeds During Storage Period (TAGEM-Researcher)
4. Studies on Developing Techniques for compost "Prina" (Olive Refuse) and its Use as Organic Manure in Agriculture. (TAGEM-Researcher)
5. Peony (*Paeonia* Spp.) Available Flora Of Turkey Determination Species, Breeding And Growing Techniques – I. (TAGEM-Researcher)
6. Organic Strawberry Growing in the Marmara Region (Using of the some Plant Nutrition Applications at the Organic Fruit Growing in the Marmara Region - Strawberry) TAGEM-Researcher
7. Determine Cultivation Methods and Obtaining New Types or Cultivars of Some Wild Ornamental Plant Species - I (TÜBİTAK 105G068) 1. Cultivation of Some Perennial Species (*Colchicum* spp., *Lilium* spp., *Nectaroscordum* spp., *Polygonatum* spp.) (TÜBİTAK-Researcher)
8. Determine Cultivation Methods and Obtaining New Types or Cultivars of Some Wild Ornamental Plant Species - I (TÜBİTAK 105G068) 2. Improving of Growing and Production Techniques of Exported Natural Flower Bulbs. (TÜBİTAK-Researcher)
9. Peony (*Paeonia* Spp.) Available Flora Of Turkey Determination Species, Breeding And Growing Techniques – I. (TAGEM-Researcher)
10. Effects to Yields, Quality and Uptake Plant Nutrient Elements of Fertyigation and Foliar Nitrogen Application on Deveci Pear Variety are Budded on Clonal Rootstock. (The PhD Thesis)
11. Introduction and Transmitting of New Cornelian Cherry Varieties in Bursa, Düzce, Kocaeli, Sakarya, Yalova ve Zonguldak Provinces. (TAGEM-Researcher)
12. Determination of Cultivation Methods for Turkey's Geophytes and Bringing of New Species and Cultivars to the Related Sectors (TÜBİTAK-Researcher)
13. Relationships Between 1-MCP Application, Alpha Farnesene Enzyme Activity, Ethylene Production, and Development of Superficial Blight (TAGEM-Researcher)
14. The Effect of Calcium Infiltration Under Vacuum on Fruit Quality in the Preservation Process of Eşme Quince Varieties (TAGEM-Researcher)
15. The Status of Nutrition of the Industrial Tomato Cultivated in Bursa, Izmir and Manisa Regions by Boron and Impact of Different Boron Applications on Yield and on Some Quality Features. (BOREN- Project Leader)



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▪ **PROJECTS**

▪ **Projects Conducted**

16. The Determination of Salt Stress Tolerance Level of Some Onion Cultivars. (TAGEM-Researcher)
17. Development of Organic Oyster Mushroom (*Pleurotus ostreatus*) Cultivation. (TAGEM-Researcher)
18. Studies on Determination of Harvest Time and Storage Conditions in Some Yellow-Fruited Kiwi Varieties and Types (TAGEM-Researcher)
19. Determination of Plant Water Consumption of Kiwifruit (*Actinidia deliciosa* cv. Hayward) in Young Period in Yalova Conditions and Effects of Irrigation on Vegetative Development (TAGEM-Researcher)
20. Adaptation and Seedling Growth Optimization of *Stevia rebaudiana* Bertoni in Yalova Conditions (TAGEM-Researcher)
21. Nature Is Calling Us (TÜBİTAK-Araştırmacı)
22. Eco-Friendly Farming for the Future (AB Erasmus+- Araştırmacı)

▪ **Ongoing Projects**

1. Determination of Nitrogen Requirements by Fertigation Method of Some Vegetables Species Under Open Field Conditions (TAGEM-Project Leader).
2. Bayrampaşa Type Artichoke (*Cynaras colymus* L.) Selection (TAGEM-Researcher)
3. The Effects of Different Irrigation Levels on Fruit Yield and Quality in Strawberry Grown in High Tunnel in Marmara Region Conditions (TAGEM-Researcher)
4. Determination of Plant Nutrient and Potential Toxic Element Contents of Agricultural Soils in Yalova, Bursa, Sakarya and Kocaeli Provinces, Creation and Mapping of Database (TAGEM-Researcher)
5. Collection, conservation and characterization of asparagus (*Asparagus* spp) genotypes in Türkiye (TAGEM-Researcher)
6. Drying Quince and Evaluation of Waste for Production of High Value Added Products (TAGEM-Researcher)
7. Domestic Variety Breeding Suitable for Bottle Culture Cultivation Technique in Enoki Mushrooms (TÜBİTAK-Araştırmacı)
8. Climate Focused Agricultural Vocational Education (EU, Erasmus+, project coordinator)



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TAGEM
AR-GE & İNOVASYON

▪ **PUBLICATIONS**

▪ **INTERNATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in International Journals**

1. **Uysal E.** 2015. Influence of Different Nitrogen Applications on Mineral Content of Fruits in Apple. TABAD Research Journal of Agricultural Sciences 8 (1): 50-53.
2. **Uysal E.** ve M.K. Soylu, 2016. Determining Certain Mineral Nutrition Contents of Mushrooms from Different Isolates of the Species *Pleurotus eryngii*. Turkish Journal Of Agriculture - Food Science And Technology, 4(3): 139-143.
3. Hanci, F., Cebeci, E., **Uysal, E.** and Dasgan, H.Y. 2016. Effects of salt stress on some physiological parameters and mineral element contents of onion (*Allium cepa* L.) plants. Acta Hort. (ISHS) 1143:179-186.
4. Soylu M.K., Özdemir M., Öztürk A., **Uysal E.**, Hantas C, 2018. Challenges and opportunities of growing organic oyster mushroom (*Pleurotus ostreatus*) on stumps for model forest and chemical and nutritional values. Acta Hort. 1287. ISHS 2020. DOI 10.17660/ActaHortic.2020.1287.47 XXX IHC – Proc. Int. Symp. on Culinary Herbs and Edible Fungi Ed.: A. Pekşen

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

1. **Uysal E.**, M.T. Sağlam, M. Büyükyılmaz, 2013. Effects to Chlorophyll Content of Fertigation and Foliar Nitrogen Application on Deveci Pear Variety. Soil-Water Journal Special Issue for AGRICASIA'2013 1st Central Asia Congress on Modern Agricultural Techniques and Plant Nutrition 1-3 October 2013, Bishkek, Kyrgyzstan, p. 67-74(Soil-Water Journal)
2. **Uysal E.**, M.T. Sağlam, M. Büyükyılmaz, 2014. BA 29 Anacı Üzerine Aşılı Deveci Armut Çeşidinde Azot Uygulamalarının Yaprakların Besin Maddesi İçerikleri Üzerine Etkisi. Türk Tarım ve Doğa Bilimleri Dergisi, Özel Sayı 1, 2014, s. 1221-1230
3. **Uysal E.**, M.T. Sağlam, M. Büyükyılmaz, 2014. Influence of Nitrogen Applications on Leaf Mineral Composition of Deveci Pear Variety Grafted on BA 29 Rootstock. Turkish Journal of Agricultural and Natural Sciences Special Issue: 1, 2014, p. 1221-1230.
4. **Uysal E.**, K. Erken, E. Kaya, S. Erken, 2014. Determination of The Some Soil Fertility Status of Rhizomatous Iris (*Iris* Spp.) Plant Grown In Flora Of Turkey. 9th International Soil Science Congresson "The Soul of Soil and Civilization", 14-16 October 2014, Side Antalya Book of Proceedings, p. 272-279.
5. **Uysal E.**, E. Kaya, 2016. Determination Some Soil Properties of the Areas Where Scilla (*Scilla* spp.) Species Grown in Flora of Turkey. International Multidisciplinary Congress of Eurasia, July 11-13 2016, Odessa, Proceedings Volume: 1: 374-382.



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▪ **PUBLICATIONS**

▪ **International Papers, Seminars, etc**

6. **Uysal E.**, 2016. Influence of Different Nitrogen Applications on Leaf Nutrient Content in Golden Sel B Apple Cultivar. International Multidisciplinary Congress of Eurasia, July 11-13 2016, Odessa, Proceedings Volume: 1: 265-272.
7. **Uysal E.**, E. Kaya, 2018. Türkiye’de doğal yayılış gösteren sarıyıldız (Gagea Salisb.) türlerinin yetiştiği alanlara ait bazı toprak özellikleri. 1st International Congress on Agricultural Structures and Irrigation, 14. Ulusal Tarımsal Yapılar ve Sulama Kongresi. September 26-28 2018, Antalya, Proceedings & Abstracts Bildiri ve Özet Kitapçığı: 270-281.
8. Üğlü G., **Uysal E.**, Sönmez İ, 2018. Investigation of Flooding and Water Stress Effects on Some Tomato Varieties. 1st International Congress on Agricultural Structures and Irrigation, 14. Ulusal Tarımsal Yapılar ve Sulama Kongresi. September 26-28 2018, Antalya, Proceedings & Abstracts Bildiri ve Özet Kitapçığı: 203-207.
9. **Uysal E.**, E. Kaya, 2018. Some Properties of Soils in Where Different Autumn-Flowering Colchicum (Colchicum spp.) Species Natural Grown in Turkey. 4th International Symposium of Medicinal and Aromatic Plants, 2-4 October 2018 Çeşme/İzmir, Symposium Book: 197-202.
10. **Uysal E.**, E. Kaya, 2018. Some Soil Properties of Different Asphodeline (Asphodeline spp.) Species Natural Grown in Flora of Turkey. 4th International Symposium of Medicinal and Aromatic Plants, 2-4 October 2018 Çeşme/İzmir, Symposium Book: 203-208..

▪ **NATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in National Journals**

1. Başay S.,N. Sürmeli, **E. Uysal** (2004). The Effect of Osmotic Conditioning on Viability, Fat and Protein Content of Pepper Seeds During Storage Period. Bahçe 33 (1-2) p.85-95. Yalova.
2. **Uysal E.** ve A.V. Katkat (2005). Iron, Manganese, Zinc and Copper Nutrition of Sweet Cherry Trees Growing in The Bursa Region. Journal of Faculty of Agriculture Uludağ University 19:2 p. 47-59. Bursa.
3. **Uysal E.** ve A.V. Katkat (2007). Nitrogen, Phosphorus, Potassium, Calcium and Magnesium Nutrition of Sweet Cherry Trees Growing in The Bursa Region. Anadolu Journal of Aegean Agricultural Research Institute 17:1, p. 71-84, İzmir
4. **Uysal E.**, ve E. Kaya, 2013. Determination of The Soil Fertility Status of Liliium (Lilium spp.) in Flora of Turkey. Research Journal of Biological Sciences 6 (2): 29-34
5. **Uysal E.** ve M.E. Akçay, 2015. Influence of Different Nitrogen Applications on Mineral Content of Fruits in Deveci Pear Variety. Academic Journal of Agriculture 4 (1):19-26



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▪ YAYINLAR

▪ **Articles Published in National Journals**

6. **Uysal E.**, M.T. Sağlam, M. Büyükyılmaz, 2015. Effects to Yields and Some Quality Properties of Different Nitrogen Application on Deveci Pear Variety. Journal of Atatürk Central Horticultural Research Institute 44(1): 1-13.
7. **Uysal E.**, B. Albayrak, F. Kayalı, A. Karakoç, M. Bıyıklı ve Ö.B. Daş, 2016. Determination of the Relationship Between Yield and Some Soil Properties of Olive Grove Cultivated in Armutlu. Journal of Nevşehir Science and Technology, TARGİD Special Issue: 19-31
8. **Uysal E.**, M.K. Soylu, 2016. Determining Protein Content of Mushrooms from Different Isolates of the *Pleurotus eryngii*. Bahçe Special Issue: 7. National Horticultural Congress Proceedings, Volume: 2 Olericulture-Viticulture-Ornamental Plants, 374-379
9. **Uysal E.**, Ö.B.D. Kılıç, O.F. Şen, N. Rahmanoğlu, B. Albayrak, M. Bıyıklı, G. Üğlü, 2017. The investigation of macro nutrition status of industrial tomatoes in Balıkesir region. Academic Journal of Agriculture 6(1):35-44
10. **Uysal E.**, 2017. Effects of Fertigation and Foliar Nitrogen Application on Yields and Quality in Golden Sel B Apple Variety. Journal of Faculty of Agriculture Uludağ University 31 (1): 77-88.
11. **Uysal E.**, Şen O.F., Kılıç Ö.B.D., Candan N., Uzun N., Üner K., Albayrak B., Bıyıklı M., Üğlü G., Rahmanoğlu N., 2017. Determination of the available boron status in soil and the nutritional status of tomato in important industrial tomato cultivation areas of Turkey. Journal of Boron 2(3): 161-167.
12. **Uysal E.**, 2018. Effects of Nitrogen Fertilization on the Chlorophyll Content of Apple. Fruit Science 5 (1): 12-17.
13. **Uysal E.**, ve E. Kaya, 2019. Some Physical and Chemical Properties of Soils in Where Different Spring-Flowering Colchicum (*Colchicum spp.*) Species Naturel Grown in Flora Of Turkey. Bahçe Journal of Atatürk Central Horticultural Research Institute 48(1): 9-18.
14. **Uysal E.**, ve E. Kaya, 2019. Properties of the soils of *Bellevalia (Bellevalia spp.)* species naturel grown in flora of Turkey. Mediterranean Agricultural Sciences (2019) 32 (Special Issue): 35-41 DOI: 10.29136/mediterranean.558330
15. **Uysal E.**, ve Akçay ME, 2020. The relationship between the mineral content of fruit and the watercore problem in deveci pear. Journal of Atatürk Central Horticultural Research Institute 49 (2): 75-81.



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TAGEM
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▪ **PUBLICATIONS**

▪ **NATIONAL ARTICLES AND PAPERS**

▪ **National Papers, Seminars, etc.**

1. Aksu Ş. ve **Uysal E.**, 2004. Studies on The Evaluation of Some Agricultural Wastes for Mushroom (Pleurotus sajor-caju) Cultivation. Turkey VII. Edible Mushrooms Congress, 22-24 September 2004. p. 68-73. Antalya.
2. Yalçinkaya E., S. Soyergin, N.A. Tangu, B. Erenođlu, **E. Uysal**, F. Çelikel (2006). Effect of Different plant Nutritional Applications on Yield and Quality in Organical Bursa Siyahı Growing on Yalova Ecological Conditions. Turkey 3. Organic Agriculture Symposium 1-4 November 2006, p. 242-249.
3. Soyergin S., **E. Uysal**, B. Albayrak (2006). Composting Olive-Mill By Product (Olive Cake). Turkey 3. Organic Agriculture Symposium 1-4 November 2006, p. 308-314.
4. **Uysal E.** ve S. Soyergin (2008). Determination of Nutrition Status of Kivifruits Grown in Yalova Around by the Soil and Leaf Analysis. 4. National Plant Nutrition and Fertilizer Congress, 8-10 October 2008 Konya, p. 532-541.
5. **Uysal E.** ve E. Kaya, 2010. Determination of The Soil Fertility Status of Peony (Paeonia spp.) in Flora of Turkey. I. National Soil and Water Resources Congress 1-4 June 2010 Eskişehir, p. 835-842
6. **Uysal E.**, 2010. The Important of Fertilization in Sweet Cherry. I. National Soil and Water Resources Congress 1-4 June 2010 Eskişehir, p. 1000-1006.
7. Albayrak B., **E. Uysal**, S. Soyergin, 2010. Determining Nutritional Status of Gemlik Olive Cultivar Soils Grown in Orhangazi Region. The Journal of Agricultural Faculty of Ege University Special Issue 5. National Plant Nutrition and Fertilizer Congress, 15-17 September 2010 İzmir, p. 430-434.
8. Soyergin S., A. Atak, **E. Uysal**, F. Çelikel, 2010. Researches for the Organic Kiwifruit Production in Marmara Region. The Journal of Agricultural Faculty of Ege University Special Issue 5. National Plant Nutrition and Fertilizer Congress, 15-17 September 2010 İzmir, p. 685-692.
9. Soyergin, S., **E. Uysal** ve E. Yalçinkaya, 2010. Changes Soil Organic Carbon Content in Organic Fruit Growing. Turkey IV. Organic Agriculture Symposium 28 June-1 July 2010, p. 203-209, Erzurum.
10. **Uysal, E.**, B. Albayrak ve S. Soyergin, 2011. Determination of Nutrition Status of Olive Grown in Gemlik Around by The Soil Analysis. II. National Soil and Water Resources Congress 22-25 November 2011 Ankara, p. 887-895.



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▪ **PUBLICATIONS**

▪ **National Papers, Seminars, etc.**

11. **Uysal E.,** B. Albayrak ve S. Soyergin, 2011. Determination of Nutrition Status of Olive Grown in Iznik Around by The Soil Analysis. Turkey VI. National Horticulture Congress, 4-8 October 2011, Book of Proceedings, p. 365-374, Sanliurfa.
12. **Uysal E.,** ve E. Kaya, 2013. Determination of The Some Soil Fertility Status of Solomonsseal (Polygonatum spp.) Plant Grown in Flora of Turkey, III. National Soil and Water Resources Congress 22-24 October 2013 Tokat, p. 724-728.
13. **Uysal E.,** ve E. Kaya, 2013. The Effects of Different Nitrogen Dosages on the Size of Bulb of Some Geophytes (Lilium Candidum, Galanthus Elwesii, Leucojum Aestivum). 5. Ornamental plants Congress, 6-9 May 2013, p. 729-732, Yalova
14. **Uysal E.,** K. Erken, E. Kaya, S. Erken, F. Gülbağ, 2013. Determination of The Soil Fertility Status of Bulbous Iris (Iris spp.) in Flora of Turkey. 5. Ornamental Plants Congress, 6-9 May 2013, p. 723-728, Yalova
15. **Uysal E.,** 2014. A Sensitive Element In Vegetable Nutrition: Boron. 10. Vegetable Farming Symposium, 2-4 September 2014, Horticulture Science Publication Number:4, Book of Proceedings, p. 473-482, Tekirdağ.
16. **Uysal E.,** ve E. Kaya, 2016. Determination Some Soil Properties of the Areas Where Gladiole (Gladiolus spp.) Species Grown in Flora of Turkey. 6 th Ornamental Plants Congress, 19-22 April 2016, Book of Proceedings:394-402, Antalya
17. **Uysal E.,** ve E. Kaya, 2016. Determination Some Soil Properties of the Areas Where Sternbergia (Sternbergia spp.) Species Grown in Flora of Turkey. 6 th Ornamental Plants Congress, 19-22 April 2016, Book of Proceedings:403-409, Antalya.
18. **Uysal E.,** ve E. Kaya, 2017. Some Physical and Chemical Properties of Soils in Where Different Anemone (Anemone spp.) Species Naturel Grown in Flora of Turkey. 5 th International Participation Soil and Water Resources Congress, 12-15 September 2017, Book of Proceedings (1):176-184, Kırklareli.



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

1. Soil Science Association
2. Chamber of Agricultural Engineers
3. Horticulture Association