



TAGEM
R&D AND INNOVATION

INTERNATIONAL AGRICULTURAL RESEARCH
AND TRAINING CENTER / İZMİR

VURAL KARAGÜL

Agricultural Engineer (MSc)

EDUCATION

- MSc** Ankara University
2006-2008 Graduate School of Natural and Applied Sciences, Field Crops
- Bachelor's Degree** Trakya University
1994-1998 Tekirdağ Faculty of Agriculture, Field Crops
- LANGUAGE** English

CAREER

- 2011-...../ Agricultural Engineer / International Agricultural Research and Training Center, İZMİR
- 2010-2011 / Agricultural Engineer / Menemen Soil and Water Resources Research Institute, İZMİR
- 1998-2010 / Agricultural Engineer / Central Research Institute for Field Crops, ANKARA
- 1995-1998 / Agricultural Technician / Tekirdağ Provincial Directorate of Agriculture, TEKİRDAĞ
- 1993-1995 / Agricultural Technician / Siirt Agricultural Production Enterprise and Vocational High School Home Economics, SİİRT

ABOUT ME

He graduated from Trakya University, Tekirdağ Faculty of Agriculture, Department of Field Crops in 1998. He worked in Tekirdağ Provincial Directorate of Agriculture between 1995-1998 and in Ankara Field Crops Central Research Institute Food Grain Legumes Improvement Unit between 1999-2010. He has been working as an agricultural engineer in the Plant Nutrition and Soil Department of the International Agricultural Research and Training Center since 2011.

His studies focus on soil conditioners, microbial fertilizers and sustainable agriculture. His main field of expertise are plant nutrition, microbial fertilizers, legumes, statistics and cultivation technique.

CONTACT

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▪ **PROJECTS**

▪ **Projects Conducted**

1. Determining the effects of deficit irrigation with different irrigation methods on yield, quality and water use efficiency on second crop soybean cultivation in Aegean Region., TÜBİTAK, **Researcher** , 2018-2019
2. National Product Monitoring and Yield Estimation Project, Yield Estimation and Product Monitoring in Corn Plant in Menemen Plain, GDAR, **Researcher** , 2016-2020
3. Investigation of Boron Nutrition Levels and the Effects of Boron Fertilization on Yields of Vineyards in İzmir, Manisa, Denizli, BOREN, **Researcher** , 2014-2016
4. The Determination of TKİ-Humic Acid and Reduced Fertilizer Levels Effect on Yield and Quality in Potato under İzmir Ecological Conditions, TKİ, **Project Leader**, 2013-2015
5. Determination of Effects of N and P fertilizers applied by Fertigation on the Yield and Some Quality Characteristics of Pepper, GDAR, **Researcher** , 2013-2015
6. Investigation on Effect of Menemen and Büyük Menderes Ecological Conditions on Yield and Fiber Quality of Some Organic Naturally Colored Cotton Cultivars, GDAR, **Researcher** , 2012-2015
7. Improvement of High Protein and Micronutrients Winter Green Lentil Cultivar for Central Anatolia and Transitional Zones, TÜBİTAK, **Researcher** , 2006-2009
8. National Integrated Lentil Breeding Project, GDAR, **Researcher** , 2004-2010
9. National Integrated Chickpea Breeding Project, GDAR, **Researcher** , 2004-2010
10. Lentil Breeding Studies for Central Anatolia, GDAR, **Researcher** , 1998-2010
11. Chickpea Breeding Studies for Central Anatolia, GDAR, **Researcher** , 1998-2010
12. The Collection and Pre Evaluation of Green Lentil in Central Anatolia and North Transitional Zones, GDAR, **Researcher** , 1998-2001

▪ **Ongoing Projects**

1. Learning and action alliances for NexuS EnvironmentS in an uncertain future (LENSES, AB Ufuk2020 PRIMA), EU, **Researcher**, 2021-2024
2. The Collection, Evaluation and Selection of Rhizobium Strains of Aegean Region, GDAR, **Project Leader**, 2018-2021
3. Production of Liquid Chemical Fertilizers Suitable for Plants Grown in Water and Dry Conditions and Comparison of Their Activity with Traditional Solid Chemical Fertilizers and Development of Machines Suitable for Liquid Fertilizer Use, GDAR-GÜBRETAS, **Researcher** , 2018-2021



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4. Developing a Digital Irrigation Management System for Corn Plants in the Aegean Region, GDAR, **Researcher**, 2021-2024
5. Developing a Digital Irrigation Management System for Wheat Crops in the Aegean Region, GDAR, **Researcher**, 2021-2024
6. Determination of Appropriate Chemical Analysis Methods for Determination of Plant Available Nitrogen in Aegean Region Conditions, GDAR, **Researcher**, 2020-2021

▪ **PUBLICATIONS**

▪ **INTERNATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in International Journals**

1. AYDOĞAN A., ATES D., **KARAGÜL V.**, KECELİ A., SANAL T., EVLİCE A., K., ÇİNKAYA N., YUCE M. 2020. Grain Yield, Grain Weight and Protein, Fe, Zn, Se and Phytic Acid Concentrations of Lentil under Dryland Conditions. International Journal of Agriculture and Biological Sciences. Volume 4 - December 2020 (12). Pages 08-25.

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

1. AYDOĞAN A., **KARAGÜL V.**, GÜRBÜZ A., SANAL T., EVLİCE A. K., ÇİNKAYA N., KEÇELİ A. 2010. Influence of Spring and Winter Sowing on Some Quality Parameters of Lentil. 5th International Food Legumes Research Conference (IFLRC V) & 7th European Conference on Grain Legumes (AEP VII). Book Of Abstracts, April 26-30, 2010, Session 2 - Poster 010, p 96. Antalya.
2. AYDOĞAN A., GÜRBÜZ A., **KARAGÜL V.**, ÇAKIR S., MART D., BABAGİL G.E., ATIKYILMAZ N., KOÇ M., TEKATLI M. 2010. Determination of Some Morphological Characters of Chickpea at Different Altitudes in Turkey. 5th International Food Legumes Research Conference (IFLRC V) & 7th European Conference on Grain Legumes (AEP VII). Book Of Abstracts, April 26-30, 2010, Session 2 - Poster 009, s 95. Antalya
3. AYDOĞAN A., **KARAGÜL V.**, GÜRBÜZ A., YÜCE M., DURMAZ Ö., VARLIK Y., GEVREK İ., ERİM M.B.2008. Iron, Zink and Selenium Content of Lentil (*Lens culinaris Medik.*) Lines in Winter and Spring Crop. 7th.Plant Genomics European Meetings. Albena, Bulgaria.
4. AYDOĞAN A., **KARAGÜL V.** 2007. Influence Of Some Morphological Traits on Cold Tolerance in Green Lentil. Integrating Legume Biology For Sustainable Agriculture, 12-16 November 2007, s 107, (Poster 231). Lisbon, PORTUGAL.
5. ÖZDEN N., **KARAGÜL V.**, SÖKMEN Ö., CANDAN N., ŞEN S., ERTÜRK A. 2016. Micro-Element Contents of Soil and Foliage of Aegean Region Vineyards. Proceeding of International Symposium on Boron in Agriculture.16-18 Kasım 2016. p 47. Ankara.
6. CANDAN N., ÜNER K., GÜNDÜZ M., **KARAGÜL V.**, UZUN N., Fehmi ŞEN O.,EŞİYOK D. 2019. Effect of Nitrogen Applied by Fertigation Method on Vitamin C Level of Paste Pepper. 6th International Congress on Soil and Water Resources. 12-14 November 2019-Menemen/İZMİR



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▪ NATIONAL ARTICLES AND PAPERS

▪ Articles Published in National Journals

1. USLU İ., ÇELİK Z., ARAS S., **KARAGÜL, V.**, ETÖZ M., ÖZDARICI OK A. 2021. Determination of Maize Planting Areas and Grain Yields Using Remote Sensing and Hybrid-Maize Crop Model. ANADOLU, Journal of Aegean Agricultural Research Institute (AARI), 31(2), 202-211.
2. AYDOĞAN A., GÜRBÜZ A., **KARAGÜL V.**, AYDIN N. 2009. Researches on Possibility of Winter Chickpea (*Cicer arietinum* L.) Production under Highland. Journal of Central Research Institute for Field Crops Volume 1-2, 18, p 11-16, Ankara.
3. AYDOĞAN A., **KARAGÜL V.**, GÜRBÜZ A. 2008. The Effects of Different Sowing Dates on Yield and Yield Components of Green and Red Lentils (*Lens culinaris* Medik.). Journal of Central Research Institute for Field Crops Volume 1-2, 17, p 25-33, Ankara
4. AYDOĞAN A., **KARAGÜL V.**, BOZDEMİR Ç. 2002. Lentil (*Lens culinaris* Medik.) Breeding Activities for Central Anatolia Region. Journal of Central Research Institute for Field Crops Volume 11, p 1-13 Ankara

▪ National Papers, Seminars, etc.

1. AYDOĞAN A., **KARAGÜL V.**, BOZDEMİR Ç. 2005. The Adaptation of Winter Lentil Varieties under Central Anatolia Conditions. Harran University Agriculture Faculty, GAP 4 th Agriculture Conference, Volume 1, p 820, Şanlıurfa.
2. AYDOĞAN A., AYDIN N., KARAGÖZ A., **KARAGÜL V.**, HORAN A., GÜRBÜZ A. 2003. The Collection, Characterization and Pre Evaluation of Green Lentil (*Lens culinaris* Medik.) in Central Anatolia and North Transitional Zones. 5 th Turkey Field Crops Conference, 13-17 October 2003, Volume 2, Oral Presentation, p 160-165, Diyarbakır.
3. AKAN K., MERT Z., ÇETİN L., SALANTUR A., ERGÜN N., **KARAGÜL V.**, DÜŞÜNCELİ F. 2009. The Determination of the Reactions of Some Wheat, Barley and Chickpea Varieties Developed by Central Research Institute for Field Crops in Turkey against Some Fungal Diseases under Field/Greenhouse conditions in Ankara. 9 th National Ecology and Environment Conference 7-10 October 2009 (Poster Presentation) p 377. Nevşehir.

▪ OTHER PUBLICATIONS

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

1. YÜZBAŞI, Ş., **KARAGÜL, V.**, ARAS, S., ŞEN, S., ERTÜRK, A. 2020. Determining the effects of deficit irrigation with different irrigation methods on yield, quality and water use efficiency on second crop soybean cultivation in Aegean Region, TÜBİTAK Project Result Report, İzmir.
2. **KARAGÜL V.**, GÜRÜN B., ÜNER K., CANDAN N., ŞEN O.F., ÖZDEMİR N., BUDAK B., GEZGİN S., 2017. The Determination of TKİ-Humic Acid and Reduced Fertilizer Levels Effect on Yield and Quality in Potato under İzmir Ecological Conditions, GDAR Project Result Report, İzmir.



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

▪ Training;

1. Plant Breeding, GDAR-Ankara/TURKEY, 2000
2. Statistics I, GDAR-Ankara/ TURKEY, 2001
3. Statistics II, IARTC -İzmir/ TURKEY, 2004
4. Lentil Breeding, ICARDA-Aleppo / Syria, 2007
5. 3D Analysis and Spatial Analysis, ESRI-İzmir/TURKEY, 06-10 December 2010
6. Soil, Fertilizer, Water and Plant Analysis, TGSKMAE-Ankara/TURKEY, 17-28 October 2011
7. TS EN ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories, SART Consulting-İzmir/TURKEY, 09 April 2012
8. Method Validation and Measurement Uncertainty Calculation in Chemical Analysis, SART Consulting-İzmir/TURKEY, 10-11 April 2012
9. Establishment, Implementation, Development and Monitoring of Internal Control System, GTHB-Antalya/TURKEY, 09-21 April 2013

▪ Meeting;

1. International Gene Bank Management and Biodiversity, IARTC-İzmir/TURKEY, 26-30 November 2012
2. Microorganism Genetic Resources Meeting, 16-17 November 2017. GDAR , ANKARA