Released Varieties

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Registration of "Sezgin" Chickpea (*Cicer arietinum* L.) Variety

"Sezgin" is a chickpea (*Cicer arietinum* L.) variety developed and registered in 2019 by Eastern Mediterranean Agricultural Research Institute (EMARI) of Turkey. The variety is well adopted to winter conditions of Mediterranean, Aegean and South East Anatolia Region of Turkey. "Introduction Breeding Method" was used to develop the variety from ICARDA's FLIP0342C source material.

Plants of Sezgin variety are well adopted to mechanised harvest due to erect growth habit, 37-70 cm plant height and14-38 cm first pod height. Time to flowering is 63-114 days and time to physiological maturity is 107-178 days. Grain is beige colored and cornered which has 34-46 g 100-grain weight. Water absorption capacity is 0.38-0.41 ml/grain; water absorption index is 1.02-1.06%; swelling index is 2.28-2.38%; eight mm sieve value is 42.1-55.8%; Protein ratio is 23-24%. Time requirement for cooking is 55-59 minutes.

Sezgin variety yield potential is high however; high yield can be obtained if environmental conditions are favourable and good agronomic practices are applied; Average grain yield of field tests is 2.7 t/ha with tolerance to Ascochyta blight.

Figure 1. Plant growth habit, grain and pod morphology of the Sezgin variety (Original).

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References and Notes

Anonymous (2019). Seed Registration and Certification Center Directorate Report, Ankara.

Mart D, Öktem G, Türkeri, M, Yücel D, Karaköy T, Dumlu SE, Atmaca E and Çankaya N (2019). Evaluation of Yield and Morphological Characteristics of Registered Chickpea (*Cicer arietinum* L.) Varieties in Different Regions, World Conference on Sustainable Life Sciences (Wocols, Sience for Life), 30th June-07th July 2019, Budapest, Hungary (Oral presentation)

Mart D, Öktem G, Can C and Özyiğit İ (2019). Ascochyta Blight (*Ascochyta rabiei*) Tolerance of Registered Chickpea (*Cicer arietinum* L.) Varieties at Southeastern Anatolia Region, World Conference on Sustainable Life Sciences (Wocols, Science for Life), 30th June-07th July 2019, Budapest, Hungary (Oral presentation)

Registration of "Caner" Chickpea (*Cicer arietinum* L.) Variety

"Caner" is a chickpea (*Cicer arietinum* L.) variety developed and registered in 2019 by Eastern Mediterranean Agricultural Research Institute (EMARI) of Turkey. The variety is well adopted to winter conditions of Mediterranean, Aegean and South East Anatolia Region of Turkey. "Selection Breeding Method" was used to develop the variety from single plant selected from ICARDA's segregating 05TH21C source material.

Plants of "Caner" variety are well adopted to mechanised harvest due to erect growth habit, 33-64 cm plant height and 9-29 cm first pod height. Time to flowering is 61-113days and time to physiological maturity is 103-180 days. Grain is beige colored and round-cornered which has 36-48 g 100-grain weight. Water absorption capacity is 0.44-0.46 ml/grain; Water absorption index is 1.05-1.10%; Swelling index is 2.36-2.37%; Eight mm sieve value is 53.8-56.0%; Protein ratio is 22-26%. Time requirement for cooking is 44-51 minutes.

Caner variety yield potential is high however; high yield can be obtained if environmental conditions are favourable and good agronomic practices are applied; Average grain yield of field tests is 2,7 t/ha with tolerance to Ascochyta blight.

Figure 1. Plant growth habit and grain and pod morphology of the Caner variety (Original).

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References and Notes

Anonymous (2019). Seed Registration and Certification Center Directorate Report, Ankara.

Mart D, Öktem G, Türkeri M, Yücel D, Karaköy T, Dumlu SE, Atmaca E and Çankaya N (2019). Evaluation of Yield and Morphological Characteristics of Registered Chickpea (*Cicer arietinum* L.) Varieties in Different Regions, World Conference On Sustainable Life Sciences (Wocols, Science for Life), 30th June-07th July 2019, Budapest, Hungary (Oral presentation)

Mart D, Öktem G, Can C and Özyiğit İ (2019). Ascochyta Blight (*Ascochyta rabiei*) Tolerance of Registered Chickpea (*Cicer arietinum* L.) Varieties at Southeastern Anatolia Region, World Conference on Sustainable Life Sciences (Wocols, Science for Life), 30th June-07th July 2019, Budapest, Hungary (Oral presentation)

Registration of "Deren" Pea (*Pisum sativum* L.) Variety

"Deren" is a pea (*Pisum sativum* L.) variety developed and registered in 2020 by Eastern Mediterranean Agricultural Research Institute (EMARI) of Turkey. The variety is well adopted to winter conditions of Mediterranean, Aegean and South East Anatolia Region of Turkey. "Selection Breeding Method" was used to develop the variety from single plant selected from local population source materials.

Plants of "Deren" variety are well adopted to mechanised harvest due to 70-127 cm plant height and 12-37 cm first pod height. Time to flowering is 37-92 days and time to physiological maturity is 102-138 days. 100-grain weight is 14.0-18.6 g. Water absorption capacity is 0.25 ml/grain; water absorption index is 1.26-1.49%; swelling index is 2.41-2.73%; eight mm sieve value is 50.8-51.8%. Protein ratio is 26-27%. Time requirement for cooking is 50-54 minutes.

Average grain yield of "Deren" variety in field tests is 2.2 t/ha.

Figure 1. Plant growth habit and grain and pod morphology of the Deren variety (Original).

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References and Notes

Anonymous (2020). Seed Registration and Certification Center Directorate Report, Ankara.

Mart D, Türkeri M and Yücel D (2018). Pea (*Pisum sativum* L.) Breeding Studies and Variety Registration in Cukurova Region, 8th Seed Congress, 10-13 September 2018, Niğde, (Oral presentation)

Mart D and Türkeri M (2019). Investigation of Yield and Yield Properties of Edible Pea (*Pisum sativum* L.) Genotypes in Eastern Mediterranean Conditions, Turkey 13th National Congress and 1st International Agronomy,01-04 November 2019 Antalya (Oral presentation).