

Ontario Regional Hazelnut Cultivar Trials

Melanie Filotas, Jenny Liu - OMAFRA

Katerina Jordan, Afisa Munawar, Cathy Bakker - University of Guelph

Sharon Regan, Queens University

Giacomo Bianchi, Ferrero

John Zandstra, Greg Watt, Sydney Boersma, University of Guelph

Background

“Improvement of Ontario hazelnut cultivars focusing on winter hardiness and pest tolerance, with an emphasis on management of Eastern Filbert Blight”

- EFB – Dr. Katerina Jordan
- Replicated cultivar trials at 5 locations across southern Ontario
- OMAFRA Special Initiatives funding – longer term projects

The logo is a black circle with a red border. Inside the circle, the text "Ontario Agri-Food Innovation Alliance" is written in white, stacked in four lines.

Ontario
Agri-Food
Innovation
Alliance

Locations

Huron Research Station

Uxbridge-area
Niagara

Kingston area



Cedar Springs Research Station

Simcoe Research Station

Niagara

Vineland Research and Innovation Center

Victoria Ave, Lincoln



Trial Design/Data Collection

- 5 trees per plot by 4 replicates
 - 20 trees of each cultivar per location
- 3.0 m between trees; 6.0 m row width
- irrigated
- multiple trunks
- Data collection:
 - tree survival
 - tree vigor
 - bloom timing/catkin production
 - yield/quality
 - disease/insect pressure

Cultivars - Oregon

Cultivar	Source	Anticipated Planting Time
1. Yamhill	Gladstone Nurseries	Spring 2022
2. Jefferson	Gladstone Nurseries	Spring 2022
3. Theta	Gladstone Nurseries	Spring 2022
4. York	Gladstone Nurseries	Fall 2022
5. McDonald	Gladstone Nurseries	Fall 2022
6. Wepster	Gladstone Nurseries	Fall 2022
7. Dorris	Nature Tech Nursery	Fall 2023
8. Felix	Nature Tech Nursery	Fall 2023
9. Eta	Nature Tech Nursery	Fall 2023
10. Sacajawea	Nature Tech Nursery	Fall 2023
Polly O	??	
Epsilon, Zeta	Obsolete - unavailable	

Cultivars - Rutgers

Cultivar	Source	Anticipated Planting Time
11. Beast	Foggy Bottom Tree Farm	Fall, 2022
12. Raritan	Foggy Bottom Tree Farm	Fall, 2022
13. Monmouth	Foggy Bottom Tree Farm	Fall, 2022
14. Hunterdon	Foggy Bottom Tree Farm	Fall, 2022
15. Somerset	Foggy Bottom Tree Farm	Fall, 2022

Cultivars - Ontario

Grimo Nut Nursery

Cultivar	Anticipated Planting Time
16. Marion	Spring 2022
17. North Blaze	Spring 2022
18. Dermis	Spring 2022

Hodgson

Cultivar	Anticipated Planting Time
19. Norfolk	Spring 2022
20. Chelsea	Spring 2022
21. 5C	Spring 2022

North Bay Planting – Rutgers

Family/Cultivar	# Planted	Survival
14501	89	89 %
14526	77	86 %
14507	25	68 %
14510	96	68 %
14525	76	67 %
14524	56	66 %
14511	52	65 %
14505	14	64 %
14523	63	60 %
14521	55	53 %
14504	111	49 %
14522	18	44 %
14502	26	39 %
Norfolk	7	14 %
Chelsea	7	14 %

Grower Surveys

- Summarize data collected to date by surveys started by Dr. Toktam Taghavi
- Many years of data over many locations; data needs to be summarized so it can be analyzed

Thank-you

