

Update on Hazelnut Research

Adam Dale

University of Guelph

- Hazelnuts
 - Variety Trials
 - Future plans

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Variety Trials

- 2008, Simcoe

- Varieties
 - Barcelona
 - Control
 - Butler, Clark, Jemstegaard, Lewis,
 - Oregon
 - C16, C28, C409
 - Martin Hodgson
 - Grimo 186M, Geneva
 - Grimo Nut Nurseries

Variety Trial - Simcoe 2008

Cultivar	Yield(g/tree)	
	2010	2011
Geneva	24	1313
Butler	42	738
C-16	16	506
Grimo 186M	4	321
Barcelona	26	333
Jemstegaard	7	359
Clark	21	254
Lewis	18	172
C-28	16	190
C-409	0	39

Variety Trial - Simcoe 2008

Cultivar	Catkin Survival (%)		
	2009	2010	2011
Geneva	100	90	71
Butler	75	81	90
C-16	-	93	99
Grimo 186M	-	90	67
Barcelona	30	32	45
Jemstegaard	95	44	65
Clark	30	16	23
Lewis	25	35	53
C-28	-	97	70
C-409	-	-	-

Variety Trial - Simcoe 2008

Cultivar	Nut Wt (g)	Meat (%)	Shape Index
Butler	3.0	44	0.85
C-16	2.8	41	0.71
Barcelona	2.7	48	0.92
Geneva	2.7	44	0.80
Grimo 186M	2.7	47	0.84
Lewis	2.7	47	0.95
C-28	2.4	39	0.62
Jemstegaard	2.2	49	0.92
Clark	2.2	53	0.94
C-409	2.1	41	0.84

Variety Trials

Simcoe and Vineland -2009

- Varieties
 - Barcelona, Geneva
 - control
 - Tonda di Giffoni
 - Halle's Giant, Jefferson, Santiam, Yamhill

Variety Trial –Simcoe 2009

Cultivar	Yield (g/tree)	Catkin Survival (%)	
	2011	2010	2011
Slate	336	61	32
Geneva	141	96	91
Gamma	93	-	25
Yamhill	61	97	27
Sacajewea	46	-	-
Santiam	45	100	50
Hall's Giant	32	81	90
Barcelona	30	-	-
Tonda di Giffoni	9	91	9
Delta	5	7	16

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Hazelnuts -Future

- Variety trials
- Propagation
- Growers Association
- New grants

Hazelnuts -Future

- Continue Variety Trials
 - Initial recommendations
 - Geneva
 - Tonda di Giffoni
 - Lewis
 - C-16
 - C-28

Hazelnuts -Future

– Propagation

- Micropropagation
 - Complete protocols
 - Transfer technology to propagators
 - Plants for 100 acres in 2013

– Nursery

- Rapid growth technologies
 - Plants to field – fall 2013

Hazelnuts -Future

— Growers Association

- Cooperative/ private corporation
- Steering committee
 - March 2012
- Incorporated
 - late 2012-early 2013
- Existing growers - by choice
- New Growers -10 acres
- Distribution of plant material

Hazelnuts -Future

– New grants

- Agricultural Adaptation Council
 - Canadian Agricultural Adaptation Program
- \$189,000 until Oct 2013

Hazelnuts -Summary

- Geneva looks acceptable
- Initial recommendations
 - Geneva, Lewis, Giffoni, C-16,C-28
- Propagation -2013 -100 acres
- Growers Association
- Ferrero commitment - tons and tons

Future Plans

- Develop blight-resistant varieties for nut production
 - Large nuts, spreading habit
- Develop techniques to have cuttings on own roots
- ‘Nodes’ of chestnuts as wind-breaks
- CAAP grant of \$139,000 to Oct 2013



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