



Grapevine Virus Tales of Woe



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Not Just One Tale

11% of all vineyards have at least one block with
known virus



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Virus in New Vines

- Newly planted vineyards with 1-10% virus coming directly from the nursery. (Leafroll and Red Blotch)
- Walking every row in Year 2 & 3
- Sample vines that look symptomatic
- Mark and then rogue out symptomatic vines
- Keep records so that we can check all of the same clones at different sites



Field Grafted Vines – Existing Vines

Older production block that was planned to be grafted over from white varietals.

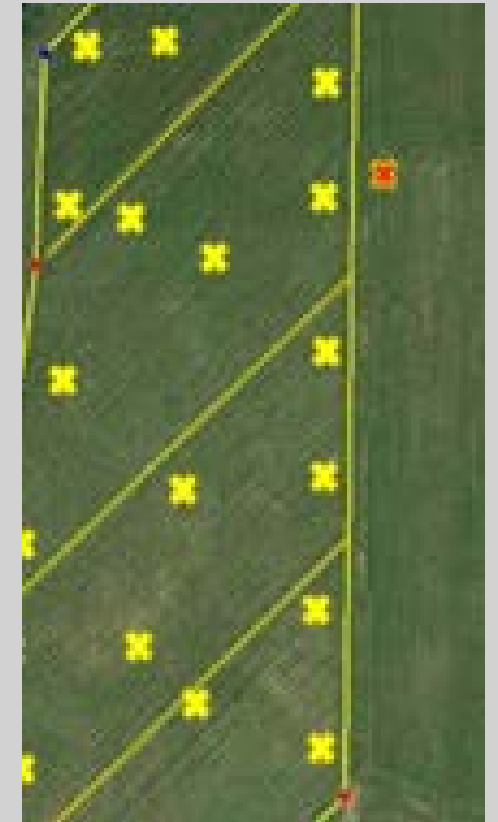
- One symptomatic red vine nearby.
- Test before grafting

Date:	November 10, 2017
Report:	12997
Date:	November 21, 2017

KEY:
 LR3: grapevine leafroll associated virus type 3
 GRBaV: grapevine red blotch associated virus

ELISA and qPCR Assay Results

Sample	Sample ID	LR 3	GRBaV
1		-	POS
2		-	POS
3		-	-
4		-	-
5		-	-
6		-	-
7		-	-
8		-	-
9		-	POS
10		-	POS
11		-	POS
12		-	POS
13		-	POS
14		-	POS
15		-	POS



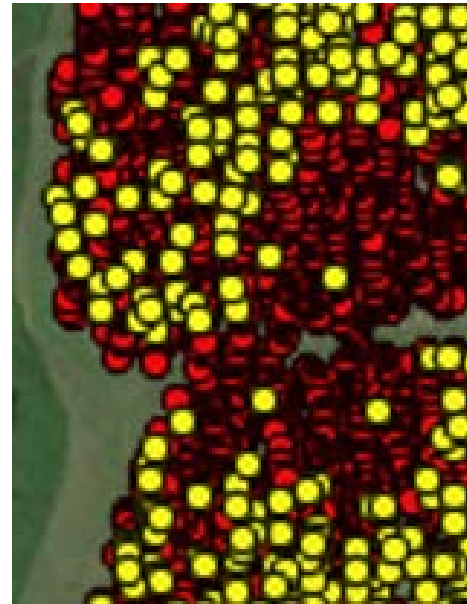
Field Grafted Vines - Budwood

- Older production vineyard that was grafted over and budwood was not tested
 - Vineyard #1 – every vine is symptomatic
 - Vineyard #2 – 5-10% of vines are symptomatic and are evenly spread throughout



Older Production Vineyard Vines

- Older production blocks with no known history of virus
 - Has gone from 56% to 76% from 2016 to 2017



New Vines - What Should You Do After You Order?

Educate yourself

- Ask the nursery for their testing status in that block/clone.
 - Rootstock and Scion
 - Test yourself or hire someone
- Learn what all of the virus and other grapevine disease symptoms look like in red and white varieties
- Learn how to test for the disease
- Scout your blocks every year. Look for symptoms



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Production Vineyard- What Should You Do?

Educate yourself

- Learn what all of the virus and other grapevine disease symptoms look like in red and white varieties
- Learn how to test for the disease
- Scout your blocks every year. Look for symptoms and record
 - Less than 20% rogue
 - More than 20% - now what??
- Don't buy or sell budwood without testing it first
- Talk to your neighbors if you think that one of you have virus, understand the potential for spread



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Best Practices – Management Tactics

- Start with the cleanest planting material
- Scout the vineyard regularly
- Sample and test
- Remove diseased vines early
- Control vectors – once they are known

