



Tunnel Hill Vineyard

P&D Monitoring Report 2020-21

Block 1 Merlot

Date	<u>Pest, Disease & Nutrition</u>	<u>Soil, Irrigation, Sward</u>
18/11/2020	Powdery Mildew	Soil Moisture / Cracks
Monitored by:	0	Soil moist from rainfall
Martha Valkenburg	Downy Mildew (oil spots or active infection)	Recent Irrigation / Precipitation
<u>Vine Growth / Canopy & Crop</u>	0	Regular rainfalls
EL Stage	Downy Mildew (old infection)	Weed Growth (vine rows)
20	0	Minimal
Tip Growth	Botrytis (leaf)	Weed Growth (mid rows)
Active	0	Volunteer sward
Canopy Height (av. - cm)	Botrytis (bunch)	Sward Length (rows / headlands)
60	0	Medium length to be slashed in a week or two
Canopy Width (av. - cm)	Mites	
50	0	
Canopy Density (thinning requirements)	Snails	
Not required	<1	
Crown Density (thinning requirements)	Scale (adults)	
Not required	<1	
Leaf Colour	Scale (eggs)	
Excellent	<1	
Canopy Lifting	Scale (crawlers)	
Required soon	<1	
Leaf Loss (shading or stress)	LBAM (webbing / moths / eggs / caterpillars)	
None	0	
Watershoot Growth	Weevils	
Minimal	0	
Fruit / Inflorescence Density, Overcropping	Eutypa	
Large number of bunches	<1	
Inflorescence / Bunch Condition & Size	Pest & Disease Notes / Other	
Good bunch size	Eutypa is noted in some trunks.	
Frost damage	Cordon removal and cane pruning has kept the vines fresh.	
NIL		
Cold damage		
NIL		



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Block 2 Cabernet Sauvignon

Date	<u>Pest, Disease & Nutrition</u>	<u>Soil, Irrigation, Sward</u>
18/11/2020	Powdery Mildew	Soil Moisture / Cracks
Monitored by:	0	Soil moist
Martha Valkenburg	Downy Mildew (oil spots or active infection)	Recent Irrigation / Precipitation
<u>Vine Growth / Canopy & Crop</u>	0	Regular recent rainfalls
EL Stage	Downy Mildew (old infection)	Weed Growth (vine rows)
18-19	0	Minimal
Tip Growth	Botrytis (leaf)	Weed Growth (mid rows)
Active	0	Volunteer sward
Canopy Height (av. - cm)	Botrytis (bunch)	Sward Length (rows / headlands)
65	0	Medium length, to be slashed soon
Canopy Width (av. - cm)	Mites	
45	0	
Canopy Density (thinning requirements)	Snails	
Not required	<1	
Crown Density (thinning requirements)	Scale (adults)	
Not required	<1	
Leaf Colour	Scale (eggs)	
Excellent	<1	
Canopy Lifting	Scale (crawlers)	
Required soon	<1	
Leaf Loss (shading or stress)	LBAM (webbing / moths / eggs / caterpillars)	
None	None noted	
Watershoot Growth	Weevils	
Small watershoot regrowth	0	
Fruit / Inflorescence Density, Overcropping		
Bunch thin may be required at veraison		
Inflorescence / Bunch Condition & Size		
Large inflorescences noted		
Frost damage		
NIL		



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Block 3 Sangiovese

Date
18/11/2020

Monitored by:
Martha Valkenburg

Vine Growth / Canopy & Crop

EL Stage
19-20

Tip Growth
Active

Canopy Height (av. - cm)
75

Canopy Width (av. - cm)
50

Canopy Density (thinning requirements)
May be required after fruit set

Crown Density (thinning requirements)
Medium

Leaf Colour
Excellent

Canopy Lifting
Required soon

Leaf Loss (shading or stress)
None

Watershoot Growth
Small shoot regrowth

Fruit / Inflorescence Density, Overcropping
Thinning may be required

Inflorescence / Bunch Condition & Size
Medium to large bunches

Frost damage
NIL

Pest, Disease & Nutrition

Powdery Mildew
0

Downy Mildew (oil spots or active infection)
0

Downy Mildew (old infection)
0

Botrytis (leaf)
0

Botrytis (bunch)
0

Mites
0

Snails
<1

Scale (adults)
<1

Scale (eggs)
<1

Scale (crawlers)
<1

LBAM (webbing / moths / eggs / caterpillars)
None noted

Weevils
0

Soil, Irrigation, Sward

Soil Moisture / Cracks
Soil moist

Recent Irrigation / Precipitation
Regular recent rainfalls

Weed Growth (vine rows)
Minimal, blackberries noted

Weed Growth (mid rows)
Volunteer sward

Sward Length (rows / headlands)
Medium, to be slashed soon

Trellis, General Vineyard





Tunnel Hill Vineyard

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Block 4a Cabernet Sauvignon

Date 18/11/2020	<u>Pest, Disease & Nutrition</u>	<u>Soil, Irrigation, Sward</u>
Monitored by: Martha Valkenburg	Powdery Mildew 0	Soil Moisture / Cracks Soil moist
<u>Vine Growth / Canopy & Crop</u>	Downy Mildew (oil spots or active infection) 0	Recent Irrigation / Precipitation Recent rainfalls
EL Stage 18-19	Downy Mildew (old infection) 0	Weed Growth (vine rows) Minimal
Tip Growth Active	Botrytis (leaf) 0	Weed Growth (mid rows) Volunteer sward
Canopy Height (av. - cm) 60	Botrytis (bunch) 0	Sward Length (rows / headlands) Medium, slashing required soon
Canopy Width (av. - cm) 40	Mites 0	<u>Trellis, General Vineyard</u>
Canopy Density (thinning requirements) Not required, later bunch thinning may be required	Snails <1	
Crown Density (thinning requirements) Not required	Scale (adults) <1	
Leaf Colour Excellent	Scale (eggs) <1	
Canopy Lifting Required soon	Scale (crawlers) <1	
Leaf Loss (shading or stress) None	LBAM (webbing / moths / eggs / caterpillars) None sighted	
Watershoot Growth Small shoot regrowth noted	Weevils 0	
Fruit / Inflorescence Density, Overcropping Significant bunch numbers. Thinning requirements to be assessed at veraison		
Inflorescence / Bunch Condition & Size Large bunch sizes		
Frost damage None		



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Block 4b Shiraz

Date
18/11/2020

Monitored by:
Martha Valkenburg

Vine Growth / Canopy & Crop

EL Stage
18-20

Tip Growth
Active

Canopy Height (av. - cm)
75

Canopy Width (av. - cm)
50

Canopy Density (thinning requirements)
Not required at this stage

Crown Density (thinning requirements)
Not required

Leaf Colour
Excellent

Canopy Lifting
Required soon

Leaf Loss (shading or stress)
None

Watershoot Growth
Small shoot regrowth

Fruit / Inflorescence Density, Overcropping
Large numbers of inflorescences, thinning to be considered later

Inflorescence / Bunch Condition & Size
Large inflorescence sizes

Frost damage
NIL

Pest, Disease & Nutrition

Powdery Mildew
0

Downy Mildew (oil spots or active infection)
0

Downy Mildew (old infection)
0

Botrytis (leaf)
0

Botrytis (bunch)
0

Mites
<1

Snails
<1

Scale (adults)
<1

Scale (eggs)
<1

Scale (crawlers)
<1

LBAM (webbing / moths / eggs / caterpillars)
None sighted

Weevils
0

Soil, Irrigation, Sward

Soil Moisture / Cracks
Soil moist

Recent Irrigation / Precipitation
Recent rainfalls

Weed Growth (vine rows)
Minimal. Herbicide has been effective and weeds have died.

Weed Growth (mid rows)
Blackberries noted

Volunteer sward
Sward Length (rows / headlands)
Medium, to be slashed soon





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Block 5a Sauvignon Blanc

Date	<u>Pest, Disease & Nutrition</u>	<u>Soil, Irrigation, Sward</u>
18/11/2020	Powdery Mildew	Soil Moisture / Cracks
Monitored by:	0	Soil quite damp to wet
Martha Valkenburg	Downy Mildew (oil spots or active infection)	Recent Irrigation / Precipitation
<u>Vine Growth / Canopy & Crop</u>	0	Regular rainfalls
EL Stage	Downy Mildew (old infection)	Weed Growth (vine rows)
17-19	0	Weed growth to be sprayed once ground has dried
Tip Growth	Botrytis (leaf)	Weed Growth (mid rows)
Active	0	Volunteer grasses
Canopy Height (av. - cm)	Botrytis (bunch)	Sward Length (rows / headlands)
50	0	Medium length
Canopy Width (av. - cm)	Mites	
30	<1	
Canopy Density (thinning requirements)	Snails	
Not required unless for high tonne price	<1	
Crown Density (thinning requirements)	Scale (adults)	
Medium	<1	
Leaf Colour	Scale (eggs)	
Excellent	<1	
Canopy Lifting	Scale (crawlers)	
Not required yet	<1	
Leaf Loss (shading or stress)	LBAM (webbing / moths / eggs / caterpillars)	
None	None sighted	
Watershoot Growth	Weevils	
Minimal	0	
Fruit / Inflorescence Density, Overcropping		
Medium to heavy crop		
Inflorescence / Bunch Condition & Size		
Medium to large bunch size		
Frost damage		
Early frost damage has regrown with minimal consequence		



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Blocks 5b & 5c Shiraz

Date 18/11/2020	<u>Pest, Disease & Nutrition</u>	<u>Soil, Irrigation, Sward</u>
Monitored by: Martha Valkenburg	Powdery Mildew 0	Soil Moisture / Cracks Soil quite wet
<u>Vine Growth / Canopy & Crop</u>	Downy Mildew (oil spots or active infection) 0	Recent Irrigation / Precipitation Regular rainfalls
EL Stage 16-17	Downy Mildew (old infection) 0	Weed Growth (vine rows) Weed growth in vine rows to be sprayed when ground is dry enough
Tip Growth Active	Botrytis (leaf) 0	Weed Growth (mid rows) Volunteer sward
Canopy Height (av. - cm) 40	Botrytis (bunch) 0	Sward Length (rows / headlands) Medium
Canopy Width (av. - cm) 30	Mites <1	
Canopy Density (thinning requirements) May be required after flower set	Snails <1	
Crown Density (thinning requirements) Not required	Scale (adults) <1	
Leaf Colour Excellent	Scale (eggs) 0	
Canopy Lifting Required soon	Scale (crawlers) 0	
Leaf Loss (shading or stress) None	LBAM (webbing / moths / eggs / caterpillars) None sighted	
Watershoot Growth Minimal	Weevils 0	
Fruit / Inflorescence Density, Overcropping Large crop for such young vines	Beneficials Earwigs noted	
Inflorescence / Bunch Condition & Size Large bunch size for such young vines		
Frost damage Minimal in low areas		



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Block 6 Merlot

	<u>Pest, Disease & Nutrition</u>	<u>Soil, Irrigation, Sward</u>
Date		
18/11/2020		
Monitored by:		
Martha Valkenburg		
<u>Vine Growth / Canopy & Crop</u>		
EL Stage		
18-19		
Tip Growth		
Active		
Canopy Height (av. - cm)		
40		
Canopy Width (av. - cm)		
30		
Canopy Density (thinning requirements)		
Not at this stage		
Crown Density (thinning requirements)		
Medium density		
Leaf Colour		
Excellent		
Canopy Lifting		
Required soon		
Leaf Loss (shading or stress)		
None		
Watershoot Growth		
Minimal		
Fruit / Inflorescence Density, Overcropping		
Thinning may be required after flowering		
Inflorescence / Bunch Condition & Size		
Large bunches		
Frost damage		
None		
	Powdery Mildew	Soil Moisture / Cracks
	0	Damp soil
	Downy Mildew (oil spots or active infection)	Recent Irrigation / Precipitation
	0	Regular rainfalls
	Downy Mildew (old infection)	Weed Growth (vine rows)
	0	Minimal
	Botrytis (leaf)	Weed Growth (mid rows)
	0	Volunteer sward
	Botrytis (bunch)	Sward Length (rows / headlands)
	0	Medium length
	Mites	
	<1	
	Snails	
	1	
	Scale (adults)	
	<1	
	Scale (eggs)	
	<1	
	Scale (crawlers)	
	<1	
	LBAM (webbing / moths / eggs / caterpillars)	
	None sighted	
	Weevils	
	0	



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Blocks 7, 8 & 9 Pinot Noir

	<u>Pest, Disease & Nutrition</u>	<u>Soil, Irrigation, Sward</u>
Date		
18/11/2020		
Monitored by:		
Martha Valkenburg		
<u>Vine Growth / Canopy & Crop</u>		
EL Stage		
19-20		
Tip Growth		
Active		
Canopy Height (av. - cm)		
75		
Canopy Width (av. - cm)		
40		
Canopy Density (thinning requirements)		
Not applicable		
Crown Density (thinning requirements)		
Not applicable		
Leaf Colour		
Excellent		
Canopy Lifting		
1st lift completed		
Leaf Loss (shading or stress)		
None		
Watershoot Growth		
Watershoots to be trained as replacement trunks		
Fruit / Inflorescence Density, Overcropping		
Good crop		
Inflorescence / Bunch Condition & Size		
Medium bunch size		
Frost damage		
None		
	Powdery Mildew	Soil Moisture / Cracks
	0	Damp soil
	Downy Mildew (oil spots or active infection)	Recent Irrigation / Precipitation
	0	Regular rainfalls
	Downy Mildew (old infection)	Weed Growth (vine rows)
	0	Medium weed growth. No herbiciding to be done due to watershoot retention
	Botrytis (leaf)	Weed Growth (mid rows)
	0	Volunteer sward
	Botrytis (bunch)	Sward Length (rows / headlands)
	0	Medium
	Mites	<u>Trellis, General Vineyard</u>
	<1	
	Snails	
	1	
	Scale (adults)	
	<1	
	Scale (eggs)	
	<1	
	Scale (crawlers)	
	<1	
	LBAM (webbing / moths / eggs / caterpillars)	
	None sighted	
	Weevils	
	0	