



Tunnel Hill Vineyard

P&D Monitoring Report 2020-21

Block 1 Merlot

Date
2/12/2020

Monitored by:
Martha Valkenburg

Vine Growth / Canopy & Crop

EL Stage
25-26

Tip Growth
Active

Canopy Height (av. - cm)
75

Canopy Width (av. - cm)
50

Canopy Density (thinning requirements)
Not required

Crown Density (thinning requirements)
Not required

Leaf Colour
Excellent

Canopy Lifting
1st lift completed

Leaf Loss (shading or stress)
None

Watershoot Growth
Watershoot regrowth noted

Fruit / Inflorescence Density, Overcropping
Large number of bunches, flower set % appears high

Inflorescence / Bunch Condition & Size
Good bunch size

Frost damage
NIL

Cold 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)
0

Weevils
0

Eutypa
<1

Pest & Disease Notes / Other
Eutypa is noted in trunks. Cordon removal / cane pruning is keeping the vines fresh.

Soil, Irrigation, Sward

Soil Moisture / Cracks
Soil is damp below the surface, irrigation required soon

Recent Irrigation / Precipitation
Recent minimal rainfalls are keeping the vines fresh

Weed Growth (vine rows)
Minimal

Weed Growth (mid rows)
Volunteer sward

Sward Length (rows / headlands)
Slashing completed





Tunnel Hill Vineyard

P&D Monitoring Report 2020-21

Block 2 Cabernet Sauvignon

Date
2/12/2020

Monitored by:
Martha Valkenburg

Vine Growth / Canopy & Crop

EL Stage
23-26

Tip Growth
Active

Canopy Height (av. - cm)
85

Canopy Width (av. - cm)
50

Canopy Density (thinning requirements)
Not required

Crown Density (thinning requirements)
Not required

Leaf Colour
Excellent

Canopy Lifting
1st lift completed

Leaf Loss (shading or stress)
None

Watershoot Growth
Watershoot regrowth will need an additional removal pass

Fruit / Inflorescence Density, Overcropping
Green bunch thin may be required at veraison

Inflorescence / Bunch Condition & Size
Large inflorescences noted

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 with dry surface

Recent Irrigation / Precipitation
Light rainfall has kept the canopy fresh

Weed Growth (vine rows)
Minimal

Weed Growth (mid rows)
Volunteer sward

Sward Length (rows / headlands)
Slashing completed





Tunnel Hill Vineyard

P&D Monitoring Report 2020-21

Block 3 Sangiovese

Date
2/12/2020

Monitored by:
Martha Valkenburg

Vine Growth / Canopy & Crop

EL Stage
26-27

Tip Growth
Active

Canopy Height (av. - cm)
75

Canopy Width (av. - cm)
50

Canopy Density (thinning requirements)
May be required after fruit set depending on rose or table wine requirements

Crown Density (thinning requirements)
Medium

Leaf Colour
Excellent

Canopy Lifting
1st lift completed

Leaf Loss (shading or stress)
None

Watershoot Growth
Small shoot regrowth

Fruit / Inflorescence Density, Overcropping
Thinning may be required as above

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 but surface beginning to dry out

Recent Irrigation / Precipitation
Weekly rainfall has kept the canopy fresh

Weed Growth (vine rows)
Minimal, blackberries to be spot sprayed

Weed Growth (mid rows)
Volunteer sward

Sward Length (rows / headlands)
Slashing completed



Tunnel Hill Vineyard

P&D Monitoring Report 2020-21

Block 4a Cabernet Sauvignon

Date	<u>Pest, Disease & Nutrition</u>	<u>Soil, Irrigation, Sward</u>
2/12/2020	Powdery Mildew	Soil Moisture / Cracks
Monitored by:	0	Soil damp with dry surface
Martha Valkenburg	Downy Mildew (oil spots or active infection)	Recent Irrigation / Precipitation
<u>Vine Growth / Canopy & Crop</u>	0	Recent rain has kept canopy fresh
EL Stage	Downy Mildew (old infection)	Weed Growth (vine rows)
23-26	0	Minimal
Tip Growth	Botrytis (leaf)	Weed Growth (mid rows)
Active	0	Volunteer sward
Canopy Height (av. - cm)	Botrytis (bunch)	Sward Length (rows / headlands)
75	0	1st slash completed
Canopy Width (av. - cm)	Mites	
45	0	
Canopy Density (thinning requirements)	Snails	
Not required, green bunch thinning may be required at veraison	<1	
Crown Density (thinning requirements)	Scale (adults)	
Not required	<1	
Leaf Colour	Scale (eggs)	
Excellent	<1	
Canopy Lifting	Scale (crawlers)	
1st lift completed	<1	
Leaf Loss (shading or stress)	LBAM (webbing / moths / eggs / caterpillars)	
None	None sighted	
Watershoot Growth	Weevils	
Watershoot regrowth will require hand removal	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		



Tunnel Hill Vineyard

P&D Monitoring Report 2020-21

Block 4b Shiraz

Date
2/12/2020

Monitored by:
Martha Valkenburg

Vine Growth / Canopy & Crop

EL Stage
25-26

Tip Growth
Active

Canopy Height (av. - cm)
90

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
1st lift completed

Leaf Loss (shading or stress)
None

Watershoot Growth
Some shoot regrowth will require removal

Fruit / Inflorescence Density, Overcropping
Large numbers of bunches, green bunch thin to be considered at veraison

Inflorescence / Bunch Condition & Size
Large bunch 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 damp with dry surface.

Recent Irrigation / Precipitation
Light rain has kept the canopy fresh

Weed Growth (vine rows)
Minimal. Blackberries noted in vine rows which will require spot spraying

Weed Growth (mid rows)
Volunteer sward

Sward Length (rows / headlands)
Slashing completed





Tunnel Hill Vineyard

P&D Monitoring Report 2020-21

Block 5a Sauvignon Blanc

Date	<u>Pest, Disease & Nutrition</u>	<u>Soil, Irrigation, Sward</u>
2/12/2020	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	Rainfall has kept the canopy fresh
EL Stage	Downy Mildew (old infection)	Weed Growth (vine rows)
26-27	0	Herbicide completed
Tip Growth	Botrytis (leaf)	Weed Growth (mid rows)
Active	0	Volunteer grasses
Canopy Height (av. - cm)	0	Sward Length (rows / headlands)
70	Botrytis (bunch)	Slashing completed
Canopy Width (av. - cm)	0	
50	Mites	
Canopy Density (thinning requirements)	<1	
Not required unless for high tonne price	Snails	
Crown Density (thinning requirements)	<1	
Medium	Scale (adults)	
Leaf Colour	<1	
Excellent	Scale (eggs)	
Canopy Lifting	<1	
Required soon	Scale (crawlers)	
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 crop loss		



Tunnel Hill Vineyard

P&D Monitoring Report 2020-21

Blocks 5b & 5c Shiraz

Date

02/12/2020

Monitored by:

Martha Valkenburg

Vine Growth / Canopy & Crop

EL Stage

26-27

Tip Growth

Active

Canopy Height (av. - cm)

50

Canopy Width (av. - cm)

40

Canopy Density (thinning requirements)

Short shoot removal required

Crown Density (thinning requirements)

Short shoot removal required

Leaf Colour

Excellent

Canopy Lifting

1st lift completed, some shoots have dropped out but lifting has prevent canopy rolling

Leaf Loss (shading or stress)

None

Watershoot Growth

Minimal

Fruit / Inflorescence Density, Overcropping

Large crop for such young vines

Inflorescence / Bunch Condition & Size

Large bunch size for such young vines

Frost damage

Minimal in low areas, minimal crop loss

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)

0

Scale (crawlers)

0

LBAM (webbing / moths / eggs / caterpillars)

None sighted

Weevils

0

Beneficials

Earwigs noted

Soil, Irrigation, Sward

Soil Moisture / Cracks

Soil quite wet

Recent Irrigation / Precipitation

Rainfall has kept canopy fresh

Weed Growth (vine rows)

Herbicide completed

Weed Growth (mid rows)

Volunteer sward

Sward Length (rows / headlands)

Slashing completed





Tunnel Hill Vineyard

P&D Monitoring Report 2020-21

Block 6 Merlot

Date 2/12/2020	<u>Pest, Disease & Nutrition</u>	<u>Soil, Irrigation, Sward</u>
Monitored by: Martha Valkenburg	Powdery Mildew 0	Soil Moisture / Cracks Damp soil with dry surface
<u>Vine Growth / Canopy & Crop</u>	Downy Mildew (oil spots or active infection) 0	Recent Irrigation / Precipitation Fresh canopy from light rainfall
EL Stage 26-27	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) Slashing completed
Canopy Width (av. - cm) 30	Mites <1	<u>Trellis, General Vineyard</u>
Canopy Density (thinning requirements) Not at this stage	Snails 1	
Crown Density (thinning requirements) Medium density	Scale (adults) <1	
Leaf Colour Excellent	Scale (eggs) <1	
Canopy Lifting 1st lift completed	Scale (crawlers) <1	
Leaf Loss (shading or stress) None	LBAM (webbing / moths / eggs / caterpillars) None sighted	
Watershoot Growth Minimal	Weevils 0	
Fruit / Inflorescence Density, Overcropping Thinning may be required at veraison		
Inflorescence / Bunch Condition & Size Large bunches		
Frost damage None		



Tunnel Hill Vineyard

P&D Monitoring Report 2020-21

Blocks 7, 8 & 9 Pinot Noir

Date
2/12/2020

Monitored by:
Martha Valkenburg

Vine Growth / Canopy & Crop

EL Stage
27-29

Tip Growth
Active

Canopy Height (av. - cm)
90

Canopy Width (av. - cm)
50

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 next week, with excess shoots removed

Fruit / Inflorescence Density, Overcropping
Good crop

Inflorescence / Bunch Condition & Size
Medium bunch size

Frost damage
None

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
Damp soil with dry surface. Extra irrigation to be applied in the coming weeks to increase crop weight.

Recent Irrigation / Precipitation
Rainfall has kept canopy fresh

Weed Growth (vine rows)
Medium weed growth. No herbiciding to be done due to watershoot retention. some spot spraying may be required.

Weed Growth (mid rows)
Volunteer sward

Sward Length (rows / headlands)
Slashing completed

