

# P&D Monitoring Report Tunnel Hill 2021-22

## Summary

**Date**  
09/03/2022

**Monitored By**  
Alex Mills

### Vineyard Summary

*Approaching harvest with this season - cool, damp conditions during flowering and fruitset - generally a light to medium density of small to medium size bunches. There is some shrivel, some splitting (especially in the tight Pinot bunches, not much in other varieties) and some bird peck. There are spots of Downy Mildew in most blocks, mostly on the tips of shoots not spreading into the resistant covered canopy..*



*Looking over Shiraz 4B to block 5  
Sauvignon Blanc and Shiraz*



*Block 5a Sauvignon Blanc bunch zone*



*Looking over Cabernet 2 to Pinot 7  
and 8*

### GPS Location

Author of this report is Group Logistics Pty Limited and its employees.

Disclaimer: Any suggestions provided are advise only. As no control can be exercised over weather, plant or soil conditions before, during or after the publishing of this report (all of which may affect the seasonal outcome) no responsibility for, or liability for any failure in performance, losses, damages, injuries (consequential or otherwise) arising will be accepted under any circumstances whatsoever. All program suggestions are based on previous experience with similar crops and soil conditions and are made in good faith.

## Block 1 Merlot

### Vine Growth / Canopy & Crop

**EL Stage**  
37  
**Tip Growth**  
Strong slowing  
**Canopy Height x Width (av. - cm)**  
90 x 70 cm  
**Canopy Lifting**  
Lifted  
**Canopy & Crown Density (thinning requirements)**  
Lightened by trimming  
**Leaf Colour**  
Good  
**Leaf Loss (shading or stress)**  
Some  
**Watershoot Growth**  
Some heavy watershoot growth  
**Fruit / Inflorescence Density, Overcropping, Bunch Size & Condition**  
Medium size bunches, medium density, some hen and chicken uneven ripening, some bird peck (maybe 1 in 20 bunches more near perimeter), some shrivel- not much.  
**Frost or Cold Damage**  
No

### Pest, Disease & Nutrition

**Powdery Mildew**  
0  
**Downy Mildew (oil spots or active infection)**  
2  
**Downy Mildew (old infection)**  
2  
**Botrytis (leaf or bunch)**  
Not sighted  
**LBAM (webbing / moths / eggs / caterpillars)**  
Not sighted  
**Scale (adults, eggs, crawlers)**  
Not sighted  
**Snails**  
Not sighted  
**Mites**  
Not sighted  
**Weevils**  
Not sighted  
**Eutypa**  
Covered by canopy  
**Diaporthe**  
No  
**Phomopsis**  
No  
**Nutrient Deficiency / Toxicity**  
Not sighted  
**Beneficials**  
Not sighted

### Soil, Irrigation, Sward, Trellis, Other

**Soil Moisture / Cracks, Recent Irrigation / Precipitation**  
Ok, drying  
**Irrigation System (Leaks, blocked emitters etc.)**  
N/a  
**Weed Growth (vine rows)**  
Some heavy patches  
**Weed Growth (mid rows)**  
Some broadleaf  
**Sward Length (rows / headlands)**  
Generally light, some heavy patches.  
**Broken Posts (intermediate, strainers)**  
N/a  
**Broken Wires**  
N/a

## Block 3 Sangiovese

### Vine Growth / Canopy & Crop

**EL Stage**  
36  
**Tip Growth**  
Slowing  
**Canopy Height x Width (av. - cm)**  
90 x 70 cm  
**Canopy Lifting**  
Lifted  
**Canopy & Crown Density (thinning requirements)**  
Fairly light canopy  
**Leaf Colour**  
Ok, some seasonal yellowing/loss.  
**Leaf Loss (shading or stress)**  
Some  
**Watershoot Growth**  
watershoots flagged/removed  
**Fruit / Inflorescence Density, Overcropping, Bunch Size & Condition**  
Small to medium size bunches, light density, some hen and chicken-fairly even ripening, some bird peck ((maybe 1 in 20 bunches); some shrivel, some splitting-not much.

### Pest, Disease & Nutrition

**Powdery Mildew**  
0  
**Downy Mildew (oil spots or active infection)**  
2  
**Downy Mildew (old infection)**  
2  
**Botrytis (leaf or bunch)**  
Not sighted  
**LBAM (webbing / moths / eggs / caterpillars)**  
Not sighted  
**Scale (adults, eggs, crawlers)**  
Not sighted  
**Snails**  
Not sighted  
**Mites**  
No  
**Weevils**  
Not sighted  
**Eutypa**  
Not sighted  
**Diaporthe**  
No  
**Phomopsis**  
No  
**Nutrient Deficiency / Toxicity**  
No  
**Beneficials**  
Not sighted  
**Notes**  
Some Downy Mildew on the tips of shoots, not spreading into the covered canopy.

### Soil, Irrigation, Sward, Trellis, Other

**Soil Moisture / Cracks, Recent Irrigation / Precipitation**  
Ok, drying.  
**Irrigation System (Leaks, blocked emitters etc.)**  
N/a  
**Weed Growth (vine rows)**  
Some grass and broadleaf including blackberry  
**Weed Growth (mid rows)**  
Some broadleaf including blackberry  
**Sward Length (rows / headlands)**  
30 cm  
**Broken Posts (intermediate, strainers)**  
N/a  
**Broken Wires**  
N/a

## Blocks 2 & 4a Cabernet Sauvignon

### Vine Growth / Canopy & Crop

**EL Stage**  
36  
**Tip Growth**  
Slowing  
**Canopy Height x Width (av. - cm)**  
90 x 70 cm  
**Canopy Lifting**  
Lifted  
**Canopy & Crown Density (thinning requirements)**  
Moderate density  
**Leaf Colour**  
Good  
**Leaf Loss (shading or stress)**  
Some  
**Watershoot Growth**  
Some heavy watershoot growth  
**Fruit / Inflorescence Density, Overcropping, Bunch Size & Condition**  
Medium size bunches, light to medium density, some secondary crop, some bird peck, some shrivel-not much.  
**Frost or Cold Damage**  
No

### Pest, Disease & Nutrition

**Powdery Mildew**  
0  
**Downy Mildew (oil spots or active infection)**  
2  
**Downy Mildew (old infection)**  
2  
**Botrytis (leaf or bunch)**  
Not sighted  
**LBAM (webbing / moths / eggs / caterpillars)**  
Not sighted  
**Scale (adults, eggs, crawlers)**  
Not sighted  
**Snails**  
Not sighted  
**Mites**  
Not sighted  
**Weevils**  
Not sighted, some damage to watershoots  
**Eutypa**  
Not showing up on the canes  
**Diaporthe**  
No  
**Phomopsis**  
No  
**Nutrient Deficiency / Toxicity**  
No  
**Beneficials**  
Not sighted  
**Notes**  
Some slightly active Downy Mildew on the tips of shoots, not spreading into the covered canopy.

### Soil, Irrigation, Sward, Trellis, Other

**Soil Moisture / Cracks, Recent Irrigation / Precipitation**  
Good  
**Irrigation System (Leaks, blocked emitters etc.)**  
N/a  
**Weed Growth (vine rows)**  
Some grass and broadleaf including blackberry  
**Weed Growth (mid rows)**  
Some broadleaf  
**Sward Length (rows / headlands)**  
20 cm  
**Broken Posts (intermediate, strainers)**  
N/a  
**Broken Wires**  
N/a

## Block 4b Shiraz

### Vine Growth / Canopy & Crop

**EL Stage**  
36  
**Tip Growth**  
Strong, slowing.  
**Canopy Height x Width (av. - cm)**  
100 x 70 cm  
**Canopy Lifting**  
Lifted  
**Canopy & Crown Density (thinning requirements)**  
Moderate density  
**Leaf Colour**  
Good  
**Leaf Loss (shading or stress)**  
Some  
**Watershoot Growth**  
Some heavy watershoot growth  
**Fruit / Inflorescence Density, Overcropping, Bunch Size & Condition**  
Medium size bunches, light to medium density, some shrivel-not much, some bird peck- not a lot so far.  
**Frost or Cold Damage**  
No

### Pest, Disease & Nutrition

**Powdery Mildew**  
0  
**Downy Mildew (oil spots or active infection)**  
2  
**Downy Mildew (old infection)**  
2  
**Botrytis (leaf or bunch)**  
Not sighted  
**LBAM (webbing / moths / eggs / caterpillars)**  
Not sighted  
**Scale (adults, eggs, crawlers)**  
Not sighted  
**Snails**  
Not sighted  
**Mites**  
Not sighted  
**Weevils**  
Not sighted  
**Eutypa**  
Not showing up on the canes  
**Diaporthe**  
No  
**Phomopsis**  
No  
**Nutrient Deficiency / Toxicity**  
No  
**Beneficials**  
Not sighted  
**Notes**  
Some spots of slightly active Downy Mildew on the tips of shoots, not spreading into the covered canopy.

### Soil, Irrigation, Sward, Trellis, Other

**Soil Moisture / Cracks, Recent Irrigation / Precipitation**  
Good  
**Irrigation System (Leaks, blocked emitters etc.)**  
N/a  
**Weed Growth (vine rows)**  
Some grass and broadleaf including blackberry.  
**Weed Growth (mid rows)**  
Some broadleaf  
**Sward Length (rows / headlands)**  
20 cm  
**Broken Posts (intermediate, strainers)**  
N/a  
**Broken Wires**  
N/a

## Block 5a Sauvignon Blanc

### Vine Growth / Canopy & Crop

**EL Stage**  
36  
**Tip Growth**  
Strong, slowing  
**Canopy Height x Width (av. - cm)**  
90 x 70 cm  
**Canopy Lifting**  
Lifted  
**Canopy & Crown Density (thinning requirements)**  
Some dense patches  
**Leaf Colour**  
Good, some seasonal yellowing/loss  
**Leaf Loss (shading or stress)**  
Some  
**Watershoot Growth**  
Some heavy watershoot growth  
**Fruit / Inflorescence Density, Overcropping, Bunch Size & Condition**  
Small to medium size bunches, medium density, some shrivel-not much, some bird peck-not much.  
**Frost or Cold Damage**  
No

### Pest, Disease & Nutrition

**Powdery Mildew**  
0  
**Downy Mildew (oil spots or active infection)**  
0  
**Downy Mildew (old infection)**  
0  
**Botrytis (leaf or bunch)**  
Not sighted  
**LBAM (webbing / moths / eggs / caterpillars)**  
Not sighted  
**Scale (adults, eggs, crawlers)**  
Not sighted  
**Snails**  
Not sighted  
**Mites**  
Not sighted  
**Weevils**  
Not sighted  
**Eutypa**  
Covered by canopy  
**Diaporthe**  
No  
**Phomopsis**  
No  
**Nutrient Deficiency / Toxicity**  
No  
**Beneficials**  
Not sighted

### Soil, Irrigation, Sward, Trellis, Other

**Soil Moisture / Cracks, Recent Irrigation / Precipitation**  
Ok, drying  
**Irrigation System (Leaks, blocked emitters etc.)**  
N/a  
**Weed Growth (vine rows)**  
Some grass and broadleaf, fairly clean.  
**Weed Growth (mid rows)**  
Some broadleaf  
**Sward Length (rows / headlands)**  
20 cm  
**Broken Posts (intermediate, strainers)**  
N/a  
**Broken Wires**  
N/a

## Blocks 5b & 5c Shiraz

### Vine Growth / Canopy & Crop

**EL Stage**  
36  
**Tip Growth**  
Slowing  
**Canopy Height x Width (av. - cm)**  
80 x 60 cm  
**Canopy Lifting**  
Lifted  
**Canopy & Crown Density (thinning requirements)**  
Light canopy  
**Leaf Colour**  
Some (seasonal/stress?yellowing/loss  
**Leaf Loss (shading or stress)**  
Quite a bit of loss  
**Watershoot Growth**  
Patches of heavy watershoot growth.  
**Fruit / Inflorescence Density, Overcropping, Bunch Size & Condition**  
Small to medium size bunches, light density, some shrivel, some bird peck- not a lot.  
**Frost or Cold Damage**  
No

### Pest, Disease & Nutrition

**Powdery Mildew**  
0  
**Downy Mildew (oil spots or active infection)**  
0  
**Downy Mildew (old infection)**  
0  
**Botrytis (leaf or bunch)**  
Not sighted  
**LBAM (webbing / moths / eggs / caterpillars)**  
Not sighted  
**Scale (adults, eggs, crawlers)**  
Not sighted  
**Snails**  
Not sighted  
**Mites**  
Not sighted  
**Weevils**  
Not sighted  
**Eutypa**  
No  
**Diaporthe**  
No  
**Phomopsis**  
No  
**Nutrient Deficiency / Toxicity**  
Some leaf fringe burn  
**Beneficials**  
Not sighted

### Soil, Irrigation, Sward, Trellis, Other

**Soil Moisture / Cracks, Recent Irrigation / Precipitation**  
Drying  
**Irrigation System (Leaks, blocked emitters etc.)**  
N/a  
**Weed Growth (vine rows)**  
Some heavy patches of grass and broadleaf  
**Weed Growth (mid rows)**  
Some broadleaf  
**Sward Length (rows / headlands)**  
Generally light, some heavy patches.  
**Broken Posts (intermediate, strainers)**  
N/a  
**Broken Wires**  
N/a



## Block 6 Merlot

### Vine Growth / Canopy & Crop

**EL Stage**  
37  
**Tip Growth**  
Strong, slowing  
**Canopy Height x Width (av. - cm)**  
90 x 70 cm  
**Canopy Lifting**  
Lifted  
**Canopy & Crown Density (thinning requirements)**  
Canopy lightened by trimming  
**Leaf Colour**  
Good  
**Leaf Loss (shading or stress)**  
Some  
**Watershoot Growth**  
Some heavy watershoot growth  
**Fruit / Inflorescence Density, Overcropping, Bunch Size & Condition**  
Medium to large bunches, medium density, some shrivel- not much, some bird peck- not much so far.  
**Frost or Cold Damage**  
No

### Pest, Disease & Nutrition

**Powdery Mildew**  
0  
**Downy Mildew (oil spots or active infection)**  
2  
**Downy Mildew (old infection)**  
2  
**Botrytis (leaf or bunch)**  
Not sighted  
**LBAM (webbing / moths / eggs / caterpillars)**  
Not sighted  
**Scale (adults, eggs, crawlers)**  
Not sighted  
**Snails**  
Not sighted  
**Mites**  
Not sighted  
**Weevils**  
Not sighted  
**Eutypa**  
Some  
**Diaporthe**  
No  
**Phomopsis**  
No  
**Nutrient Deficiency / Toxicity**  
No  
**Beneficials**  
Not sighted  
**Notes**  
Some active Downy Mildew on the tips of shoots, not spreading into the resistant spray covered canopy.

### Soil, Irrigation, Sward, Trellis, Other

**Soil Moisture / Cracks, Recent Irrigation / Precipitation**  
Ok, drying  
**Irrigation System (Leaks, blocked emitters etc.)**  
N/a  
**Weed Growth (vine rows)**  
Some grass and broadleaf  
**Weed Growth (mid rows)**  
Some broadleaf  
**Sward Length (rows / headlands)**  
30 cm  
**Broken Posts (intermediate, strainers)**  
N/a  
**Broken Wires**  
N/a



## Blocks 7, 8 & 9 Pinot Noir

### Vine Growth / Canopy & Crop

**EL Stage**  
37  
**Tip Growth**  
Strong, slowing.  
**Canopy Height x Width (av. - cm)**  
90 x 70 cm  
**Canopy Lifting**  
Lifted  
**Canopy & Crown Density (thinning requirements)**  
Canopy lightened by trimming  
**Leaf Colour**  
Good, some seasonal yellowing/loss.  
**Leaf Loss (shading or stress)**  
Some  
**Watershoot Growth**  
Watershoots tagged removed, quite a lot of excess growth.  
**Fruit / Inflorescence Density, Overcropping, Bunch Size & Condition**  
,Small to medium size bunches, light density, some hen and chicken, some weeping (smaller berries crushed by bigger) and splitting (maybe 1 in 20 bunches), some shrivel (maybe 1 in 10 bunches) some bird peck (maybe 1 in 30 bunches,, more on the perimeters near trees), some secondary crop.  
**Frost or Cold Damage**  
No

### Pest, Disease & Nutrition

**Powdery Mildew**  
0  
**Downy Mildew (oil spots or active infection)**  
2  
**Downy Mildew (old infection)**  
2  
**Botrytis (leaf or bunch)**  
Not sighted, some penicillin mould-not much - in split berries.  
**LBAM (webbing / moths / eggs / caterpillars)**  
Not sighted  
**Scale (adults, eggs, crawlers)**  
Not sighted  
**Snails**  
Not sighted  
**Mites**  
Not sighted  
**Weevils**  
Not sighted  
**Eutypa**  
Not showing up on the canes  
**Diaporthe**  
No  
**Phomopsis**  
No  
**Nutrient Deficiency / Toxicity**  
No  
**Beneficials**  
Not sighted  
**Notes**  
Some spots of slightly active Downy Mildew on the tips of shoots in blocks 8 & 9 not spreading into the covered canopy, more in block 7-some, not much at this stage spread into the resistant spray covered canopy.

### Soil, Irrigation, Sward, Trellis, Other

**Soil Moisture / Cracks, Recent Irrigation / Precipitation**  
Ok, drying.  
**Irrigation System (Leaks, blocked emitters etc.)**  
N/a  
**Weed Growth (vine rows)**  
Some grass and broadleaf including blackberry.  
**Weed Growth (mid rows)**  
Some broadleaf  
**Sward Length (rows / headlands)**  
20 cm  
**Broken Posts (intermediate, strainers)**  
N/a  
**Broken Wires**  
N/a

## Images



*Block 7 Pinot bunch zone*



*Block 7 Pinot some active Downy Mildew on the tips of shoots, some not a lot - spread into the resistant spray covered canopy.*



*Block 8 Pinot some bird peck, shrivel, penicillin mould.*



*Block 9 slightly active Downy Mildew on the tip of a shoot, only a few spots and not spreading into the covered canopy.*



*Merlot block 6 bunch zone*



*Merlot block 1 bunch zone*





*Merlot block 1 some slightly active Downy Mildew on the tip of a shoot*



*Sangiovese 3 bunch zone*



*Cabernet block 2 bunch zone*



*Slightly active Downy Mildew block 2 Cabernet*



*Shiraz 4B active Downy Mildew on the tip of a shoot.*



*Shiraz 4B bunch zone*





*Shiraz 4B canopy lightened by trimming, some watershoots, some undervine weeds, light midrow sward.*



*5a Sauvignon Blanc some dense canopy, some watershoots, some undervine weeds fairly clean, light midrow sward.*



*Some bird peck and shrivel Sauvignon Blanc 5a (not much at this stage).*



*Shiraz 5b bunch zone*



*Leaf fringe burn, yellowing Shiraz 5c*

*Chardonnay E generally dense crowns and canopy, dense watershoots, some Eutypa*



## Tunnel Hill Vineyard Map

