



## About Longridge Olives

- First high-density orchard planted in 1998.
- Super high-density orchard planted in 2008.
- Olive mill operational in 2018.
- Three on the ground workers (Jim, Lachlan and Harrison)
- 86 ha of olives.





### About Harrison

- Studied Math, Physics, Computer Science and Teaching.
- Came back in 2018 to help build the olive mill.
- Integrating sensors and monitoring technology.
- Skills in networking, planning and infrastructure.
- Passionate about flying.





## Major Considerations



WATER



**LOCATION** 



PLANNING FOR LOW MAINTENANCE



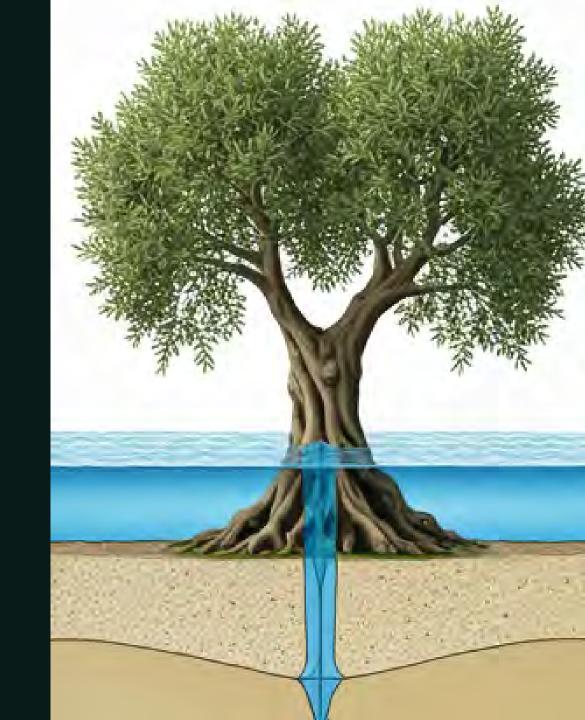
**PLANTING** 





### Water

- Olive trees do require a lot of water.
- 10 Megalitres per hectare, annually.
- 1 full metre of water over the entire grove.



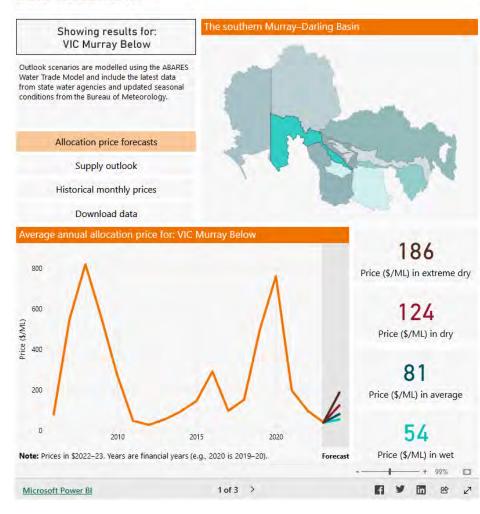
#### Water

- The price of river water is a cost you cannot control.
- Use bore water where you can.

#### Water Market Outlook - April 2023

Authors: John Walsh, Rhys Downham, Jordan Rose and Mihir Gupta

#### Data visualisation





### Frosts

• Location is the most important factor.



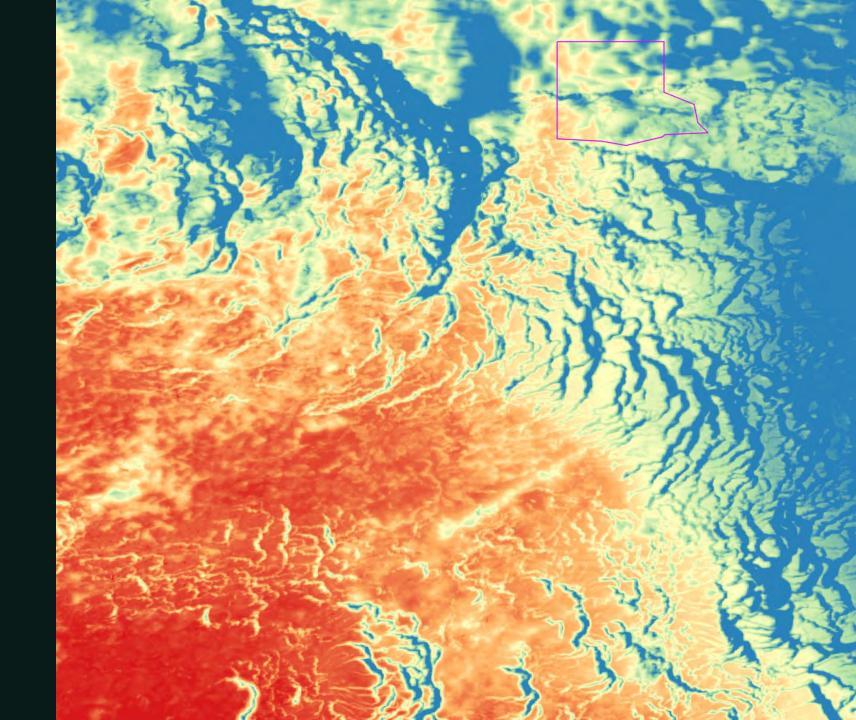


## Find and use elevation data to plan your orchard



# Starting Fresh

- Buy land on higher ground.
- Longridge is lucky as we didn't know this when we started.



### Frost Fans

 May work better in different topography.



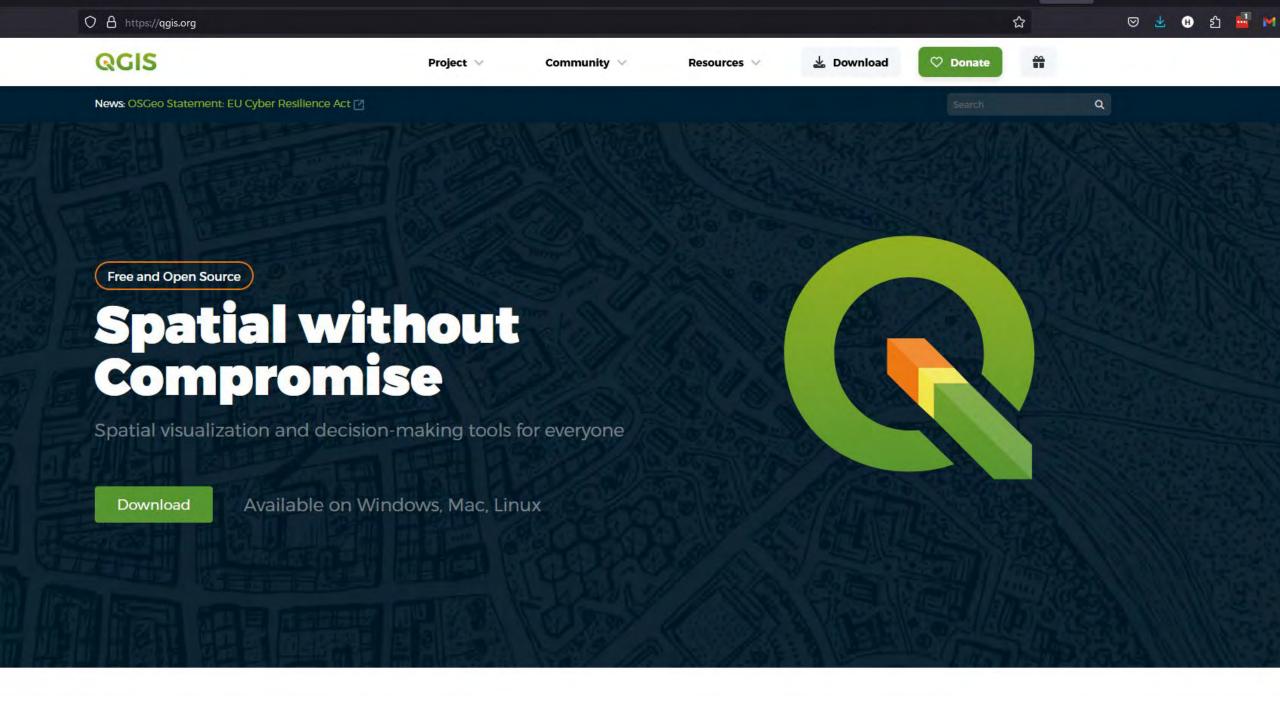


#### Elvis - Elevation and Depth - Foundation Spatial Data

Information Publication Scheme Freedom of Information







Location – Solar Irrigation







#### Reasons for Low Maintenance



You can maintain more or enjoy your life more.



A lack of money and time.



Be profitable with a low bulk oil price.

- Our pruning regime is cut the trees, so they have space to grow new wood and fit in the harvester.
- These trees have already been harvested.



- This was August 2023.
- No fruit in harvest 2024.



- Unsure if it's the best idea, but it's the only affordable and practical one for us.
- Roughly 50c per tree.



Very good flowering for 2025



#### Low Irrigation Maintenance - Valves

- Irrigation design software works to best hydraulic solution, not most practical solution.
- Cluster your valves for easy maintenance and control.
- Get self flushing filters if you can afford them.

