

Map User Notes

The mapping aims to classify land suitable for growing Sparkling wine grapes according to four suitability classes: “Well suited”, “Suitable”, Suitable (with frost prevention installed)”, “Unsuitable”. These are produced from a set of pre-determined rules in accordance to a suitability matrix (refer below). The rules have been developed from reviewing existing literature in conjunction with industry consultation and refined further via grower surveys and ground truthing. They are based on climatic influences (on sparkling wine grape suitability). It does not take into consideration soil, topographic or land use characteristics – although major conservation/protection, water bodies and urban areas have been classified as “Unsuitable” by default.

Suitability Matrix – Sparkling Wine Grapes

Suitability rating	Rainfall: Cumulative rainfall days (>1mm) in March to April	Frost risk: The chance of having a day where daily Tmin is less than -1°C in October, November and April.	Growing Season Temperature (GST) (October to April)
Well suited	<20 days	Very low risk: <1 frost per 20 year period	13.4 – 15.2°C
Suitable		Low risk: between 1/20yr to 1/10yr period	>15.2°C
Suitable (with frost prevention installed)		Medium risk: between 1/10yr to 1/5yr period High risk: between 1/5yr to 1/2yr period	
Unsuitable (prohibitive - do not plant vines)	>20 days	Very high/extreme risk: >1 frost per 2 year period	<13.4°C

The overall suitability rating is determined using a most-limiting-factor approach, where the lowest rated parameter becomes the overall suitability rating. As an example, a location may possess the following characteristics:

- 1) Rainfall: Cumulative rainfall days (>1mm) in March to April - <20 days (**Well suited**)
- 2) Frost risk: The chance of having a day where daily Tmin is less than -1°C in October, November and April - Very low risk: <1 frost per 20 year period (**Well suited**)
- 3) Growing Season Temperature (October to April) - >15.2°C (**Suitable**)

Overall suitability rating – “Suitable”

In this case, the overall suitability would be classified as “Suitable” due to the Growing Season Temperature exceeding 15.2°C therefore limiting suitability due to this classification.

Definitions of Suitability Classes (in relation to the suitability matrix)

Well suited: Land having no significant climatic limitations to sustained sparkling wine grape production where risk of significant crop loss due to adverse climate conditions are unlikely.

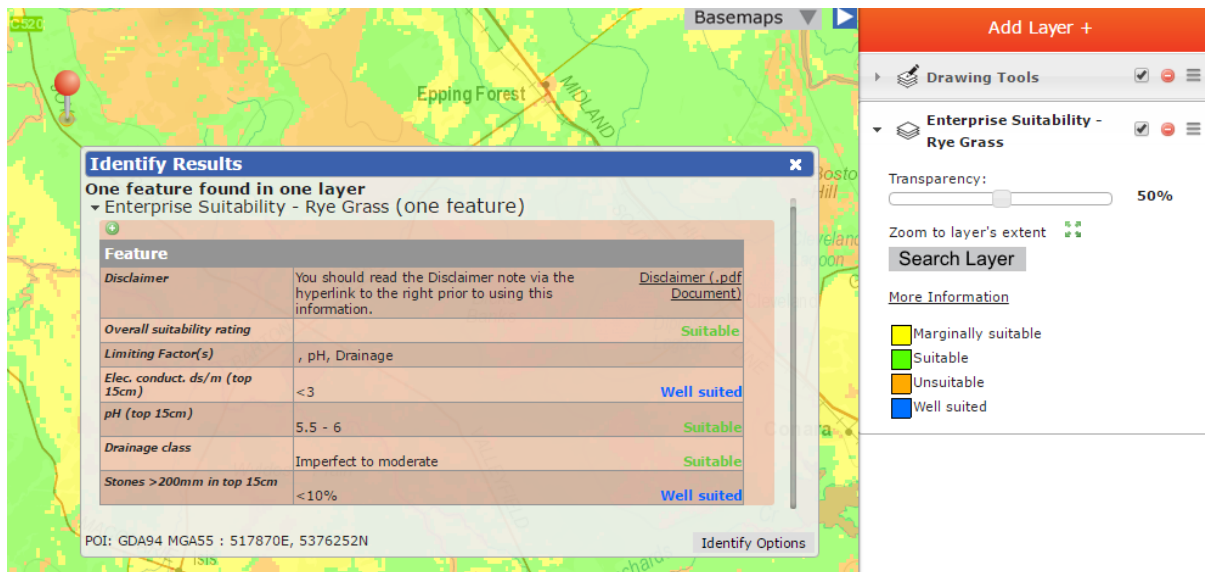
Suitable: Land having only minor climatic limitations that will not significantly reduce productivity. Any risk of crop loss is inherently low.

Suitable (with frost prevention installed): Same as above, however, frost prevention measures must be installed that would otherwise result in reduced productivity and crop loss.

Unsuitable: Land having climatic limitations which are severe for sustained sparkling wine grape production and will so reduce benefits, or increase required inputs, that this expenditure may not justify. Risk of crop loss may be high.

LISTmap instructions

Any location can be interrogated within Tasmania by using the identify tool in LISTmap. Simply click on any location (whilst the Sparkling Wine Grape suitability layer is active in the table of contents panel) and a window will appear that details each rule and their subsequent suitability ratings in accordance to the suitability matrix. An example is given below using the suitability map for Rye grass:



The screenshot shows the LISTmap interface with a suitability map for Rye Grass. The 'Identify Results' window is open, displaying the following table:

Feature		
Disclaimer	You should read the Disclaimer note via the hyperlink to the right prior to using this information.	Disclaimer (.pdf Document)
Overall suitability rating		Suitable
Limiting Factor(s)	, pH, Drainage	
Elec. conduct. ds/m (top 15cm)	<3	Well suited
pH (top 15cm)	5.5 - 6	Suitable
Drainage class	Imperfect to moderate	Suitable
Stones >200mm in top 15cm	<10%	Well suited

POI: GDA94 MGA55 : 517870E, 5376252N

A field labelled “Limiting Factor(s)” will also appear that provides a list of rule names that limits a classification to a particular suitability rating. The design of the suitability mapping system is to be transparent that allows the user to ‘drill down’ and view the underlying climate information on any location. The aim is to provide information on all contributing rule attributes to facilitate improved decision making capabilities to the user. For additional information about using ListMap, please consult the help document: <http://listdata.thelist.tas.gov.au/public/outgoing/sif/listmaphelp.pdf> For additional information relating to the dataset, please consult the metadata: <https://data.thelist.tas.gov.au/datagn/srv/eng/metadata.show?id=1013&currTab=simple>

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Caution and Disclaimer

The information and material in LISTmap (including the enterprise suitability map layer for Sparkling Wine Grapes and accompanying climate input datasets, i.e. “material”) is based on computer modeling of the potential suitability of Sparkling Wine Grapes to a given area and, as such, there are inherent uncertainties in the results. While every effort has been made to ensure the material is accurate, the Crown in Right of Tasmania (“Crown”) provide no warranty, guarantee or representation that the material is accurate, complete, up to date, non-infringing or fit for a particular purpose.

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