

Land capability for wine grapes

Pinot-noir, merlot, Chardonnay and sauvignon blanc are used as the benchmark varieties for early maturing wine grape capability.

Factors and critical values used for determining the land capability for early maturing wine grapes:

Factor	Critical value		
	High probability of being capable	Moderate probability of being capable	Low probability of being capable
Climate			
Mean cumulative days of frost during spring (Sept, Oct and Nov)	<10	10 - 15	>15
Mean monthly rainfall during flowering (Nov and Dec)	< 75 mm in Nov <u>and</u> < 75 mm in Dec	< 75 mm in Nov <u>or</u> < 75 mm in Dec	> 75 mm in Nov <u>and</u> > 75 mm in Dec
Mean monthly rainfall during ripening (Mar and Apr)	< 75 mm in Mar <u>and</u> < 75 mm in April	< 75 mm in Mar <u>or</u> < 75 mm in April	> 75 mm in Mar <u>and</u> > 75 mm in April
Branas Index	< 5000	5000 - 6000	> 6000
Heat Degree Days	1100 - 1600	1600 - 1900	> 1900 and < 1100
Landscape			
Slope (%)	0.5 - 15	< 0.5 and 15 - 25	> 25
Rock outcrop (%)	<5	5-20	>20
Soil			
Surface pH	5.5 - 8.0	4.5 - 5.5 and 8.0 - 8.5	< 4.5 and > 8.5
Sub-surface pH	5.5 - 8.0	4.5 - 5.5 and 8.0 - 9	< 4.5 and > 9
Surface texture	Loam (L), Sandy Loam (SL), Silty Loam (ZL), Sandy Clay Loam (SCL), Clay Loam (CL), Loamy Sand (LS), Silty Clay Loam (ZCL), Light Clay (LC), Clayey Sand, (CS), Light Medium Clay (LMC)	Sand (S), Medium Clay (MC), Medium Heavy Clay (MHC)	Heavy Clay (HC)

Factor	Critical value		
	High probability of being capable	Moderate probability of being capable	Low probability of being capable
Sub-surface texture	Loam (L), Sandy Loam (SL), Silty Loam (ZL), Sandy Clay Loam (SCL), Clay Loam (CL), Loamy Sand (LS), Silty Clay Loam (ZCL), Light Clay (LC), Clayey Sand, (CS), Light Medium Clay (LMC), Medium Clay (MC), Medium Heavy Clay (MHC)	Heavy Clay (HC), Sand (S)	
Surface soil sodicity	No (ESP < 6%), Slight (ESP 6 -15%)	Yes (ESP > 15%)	
Sub-surface soil sodicity	No (ESP < 6%), Slight (ESP 6 -15%)	Yes (ESP > 15%)	
Total soil depth (cm)	30 - 60	> 60, 10 - 30	< 10
Internal soil drainage	Moderately well drained (MWD), Well drained (WD)	Rapidly drained (RD), Imperfectly drained (IMPERF)	Poorly drained (PD), Very poorly drained (VPD)

The capability and critical factor outputs relating to this table can be explored and viewed from the capability map or by selecting the critical factors from the table.

**Land capability for southern blue gum
(*Eucalyptus globulus ssp. globulus*)**

Product: Wood

Use: Firewood and/or pulp

Factors and critical values used for determining the land capability for southern blue gum:

Factor	Critical value		
	High probability of being capable	Moderate probability of being capable	Low probability of being capable
Climate			
Average annual number of frosts	< 25	25 - 40	> 40
Average annual rainfall (mm)	> 850	650 - 850	< 650
Average maximum temperature of hottest month (°C)	18 - 30	31 - 32 and 16 - 17	< 16 and > 32
Average minimum temperature of coldest month (°C)	> 3	2 - 3	< 2
Landscape			
Slope (%)	< 30	30 - 38	> 38
Rock outcrop (%)	<10	10-25	>25
Soil			
Internal soil drainage	Moderately well drained (MWD), Well drained (WD), Rapidly drained (RD), Imperfectly drained (IMPERF)		Poorly drained (PD), Very poorly drained (VPD)
Salinity (discharge site)	absent		present
Estimated total soil depth (cm)	> 300	200 - 300	< 200

The capability and critical factor outputs relating to this table can be explored and viewed from the capability map or by selecting the critical factors from the table.

Land capability for broadacre cropping

Factors and critical values used for determining the land capability for broadacre cropping:

Factor	High probability of being capable	Moderate probability of being capable	Low probability of being capable
<i>Landscape</i>			
Slope (%)	1 - 3	3 - 10	> 10, < 1
Rock outcrop (%)	0	<5	>5
<i>Soil</i>			
Surface texture	Loam (L), Sandy Loam (SL), Silty Loam (ZL), Sandy Clay Loam (SCL), Clay Loam (CL), Loamy Sand (LS), Silty Clay Loam (ZCL),	Light Clay (LC), Sand (S)	Medium Heavy Clay (MHC), Heavy Clay (HC)
Sub-surface texture	Loam (L), Sandy Loam (SL), Silty Loam (ZL), Sandy Clay Loam (SCL), Clay Loam (CL), Loamy Sand (LS), Silty Clay Loam (ZCL), Light Clay (LC), Sand (S)	Medium Heavy Clay (MHC), Heavy Clay (HC)	
Surface dispersion	E6, E7, E8	E4, E5	E1, E2, E3
Sub-surface dispersion	E5, E6, E7, E8	E3, E4	E1, E2
Internal soil drainage	Well drained (WD), Moderately well drained (MWD)	Rapidly drained (RD), Imperfectly drained (IMPERF)	Poorly drained (PD), Very poorly drained (VPD)
Depth of A2 horizon (cm)	0	1-15	>15

The capability and critical factor outputs relating to this table can be explored and viewed from the capability map or by selecting the critical factors from the table.

Benefits of raised beds for broadacre cropping

Factors and critical values used for determining when raised beds are beneficial to broadacre cropping

Factor	High probability of being beneficial
<i>Landscape</i>	
Slope (%)	< 2.0
Rock outcrop (%)	0-1
<i>Soil</i>	
Surface texture	Loam (L), Clay Loam (CL), Light Clay (LC), Light Medium Clay (LMC), Medium. Clay (MC), Medium Heavy Clay (MHC), Silty Clay Loam (ZCL), Sandy Clay Loam (SCL), Loamy Sand (LS), Clayey Sand (CS), Sandy Loam (SL), Silty Loam (ZL)
Sub-surface texture	Loam (L), Clay Loam (CL), Light Clay (LC), Light Medium Clay (LMC), Medium. Clay (MC), Medium Heavy Clay (MHC), Heavy Clay (HC), Silty Clay Loam (ZCL), Sandy Clay Loam (SCL), Loamy Sand (LS), Clayey Sand (CS), Sandy Loam (SL), Silty Loam (ZL)
Floater (%)	0
Internal soil drainage	Imperfectly drained (IMPERF), Poorly drained (PD)
A2 horizon	Absent

The capability and critical factor outputs relating to this table can be explored and viewed from the capability map or by selecting the critical factors from the table.