

Penetrometer readings for selected Hawthorn fields

Here are the penetrometer results from the fields tested. I have not calculated mean pressures as I think the individual readings tells us more about your soils.

Units are in Megapascals (Mpa). 1MPa = 10 bars = 145psi (this sort of thing is important to nerds like me). With respect to the results below, 0 – 1 (green) is good, 1 – 2 (yellow) is OK, 2 – 3 (red) is poor, significantly reducing root growth, black is very poor, of concern, restricting root growth to a high degree.

In terms of your land capability I would be content with readings up to 2.5MPa.

Depth measurements – 5cm = 2 inches; 30cm = 12 inches

AREA: Cobb Hill, between drill holes

Depth (cm)	Maximum Pressure (MPa)						Notes
5	1.5	1	2	2	1.5	1.5	
10	2.5	1.5	black	1.5	2	2	
15	black	2.5		2	black	2.5	
20		black		2		2.5	Tendency for stones at 20cm depth
25				2.5		black	
30				3			
35				3			

AREA: Cobb Hill, in drill holes

Depth (cm)	Maximum Pressure (MPa)						Notes
5	1	0.5	0.5	0.5	1	0.5	
10	black	2	1	2	1.5	2	
15		3	1.5	2	2	black	
20		black	2	1.5	3		
25			black	3	black		
30				black			
35							

AREA: Days Ground, pre-drill

Depth (cm)	Maximum Pressure (MPa)						Notes
5	3	3					
10	black	3					
15	3	black					
20	3	black					
25	black	black					
30							
35							

AREA: Days Ground, post-drill

Depth (cm)	Maximum Pressure (MPa)						Notes
5	3	2	1.5	2.5			
10	3	2	2	2.5			
15	3	2.5	stone	2.5			
20	2.5	black		2.5			
25	2.5			black			
30	black						
35							