

Ranges of Water Stress in Grapevines

UCCE NORTH COAST VITICULTURE

TOOLS AND STRESS LEVELS	STEM WATER POTENTIAL (- BARS)				SOIL WATER TENSION (- CENTIBARS)				SAP FLOW RATE (LITERS/HOUR)			
	0	8	12	14+	20	40	60	80+	0	1	2	3
Pressure Chamber - Low Water Stress	[Blue bar from 0 to 8]											
Pressure Chamber - Moderate Water Stress		[Blue bar from 8 to 12]										
Pressure Chamber - High Water Stress			[Blue bar from 12 to 14+]									
Soil Tensiometer - Low Water Stress					[Orange bar from 20 to 40]							
Soil Tensiometer - Moderate Water Stress						[Orange bar from 40 to 60]						
Soil Tensiometer - High Water Stress							[Orange bar from 60 to 80+]					
Sap Flow Meter - Low Water Stress											[Dark green bar from 2 to 3]	
Sap Flow Meter - Moderate Water Stress										[Dark green bar from 1 to 2]		
Sap Flow Meter - High Water Stress									[Dark green bar from 0 to 1]			