

Plant Moisture System Estimated Stress Response

Tree Species		
Low Stress	Medium Stress	High Stress
Loblolly Pine (<i>Pinus Taeda</i>)	Lodgepole Pine (<i>Pinus Contorta</i>)	Digger Pine (<i>Pinus Sabiniana</i>)
Western Red Cedar (<i>Thuja Plicata</i>)	Ponderosa Pine (<i>Pinus Ponderosa</i>)	Incense Cedar (<i>Calocedrus Decurrens</i>)
Shasta Red Fir (<i>Abies Magnifica</i>)	Scotts Pine (<i>Pinus Sylvestris</i>)	Buriti Palm (<i>Mauritia Vinifera</i>)
Noble Fir (<i>Abies Procera</i>)	Sugar Pine (<i>pinus Lambertiana</i>)	Acai (<i>Euterpe Oleracea</i>)
Pacific Silver Fir (<i>Abies Amabilis</i>)	Western White Pine (<i>Pinus Moticola</i>)	Evergreen Oak (<i>Quercus Ilex</i>)
Englemann Spruce (<i>Picea Engelmannii</i>)	Douglas Fir (<i>Pseudotsuga Menziesii</i>)	Mopane (<i>Colophospermum Mopane</i>)
Common Ash (<i>Fraxinus Excelsior</i>)	White Fir (<i>Abies Concolor</i>)	Chestnut (<i>Castanea Sativa</i>)
Sycamore (<i>Acer Pseudoplatanus</i>)	White Spruce (<i>Picea Glauca</i>)	Juniper (<i>Juniperus</i>)
	Coconut Palm (<i>Cocus Nucifera</i>)	
	Brazilian Green Dwarf Coconut (<i>Cocos Nucifera L. 'nana'</i>)	
	Peach Palm (<i>Bactris Gasipaes</i>)	
	Western Hemlock (<i>Tsuga Heterophylla</i>)	
	Western Larch (<i>Larix Occidentalis</i>)	

Typical Range of PMS Readings (**Minimum** / Maximum) (Bar)

	Low Stress Trees	Medium Stress Trees	High Stress Trees
Suitable Water Supply:	5 / 8	7 / 10	10 / 12
Restricted Water Supply:	10 / 12	10 / 15	17 / 20
Severe Water Restrictions:	12 / 14	15 / 20	20 / 25

Plant response when under stress:	
Suitable Water Supply:	Water supply is adequate, growth is not limited by water availability. Maximum shoot growth is maintained.
Restricted Water Supply:	Water supply is restricted, shoot growth is restricted. This limits phloem transport, leaf expansion and diameter growth.
Severe Water Restrictions:	Water supply is severely restricted, stomata close and shoot growth stops. Overall growth rate declines overall and activates stress response (Limit growth, stimulate flowering).

Plant Species		
Low Stress	Medium Stress	High Stress
Melon	Alfalfa	Cotton
Tomato	Sugar Beet	Olive
Lettuce	Grape	Walnut
Squash	Oats	
Celery	Barley	
Bean	Wheat	
Radish	Corn	
Carrot	Peach	
Rice	Almond	
Coffee	Green Pepper	
Tobacco	Pasture Grasses	
Pea	Soy Bean	
	Citrus	
	Berries	
	Apricot	
	Mint	
	Potato	
	Avocado	

Typical Range of PMS Readings (Minimum / Maximum) (Bar)

	Low Stress Plants	Medium Stress Plants	High Stress Plants
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