TABLE I

CONIFER TREES CLASSIFIED BY STRESS CATEGORIES

Low Stress Conifer	**Medium Stress Conifer**	**High Stress Conifer**
Loblolly Pine	Douglas Fir	Juniper
Western Red Cedar	Western Hemlock	Digger Pine
Shasta Red Fir	Western Larch	Incense Cedar
Noble Fir	White Fir	
Pacific Silver Fir	Ponderosa Pine	
Engleman Spruce	Lodgepole Pine	
	White Spruce	
	Sugar Pine	
	Western White Pine	

TABLE II

ESTIMATED PLANT MOISTURE STRESS RESPONSES FOR CATEGORIES OF CONIFER TREES MEASURED IN BAR

TYPICAL RANGE IN PMS LEVELS (MIN/MAX)* (BAR)			**PLANT RESPONSE TO STRESS**
Low Stress Conifers	**Medium Stress Conifers**	**High Stress Conifers**	
5/8	7/10	10/12	Growth not limited by water, supply adequate, maintains maximum shoot growth.
10/12	10/15	17/20	Slight to moderate shoot growth reductions. PMS changes rapidly in changing environment. Irrigate to maximize growth and productivity. Stress limits phloem transport, leaf expansion and diameter growth.
12/14	15/20	20/25	Stomata close, shoot growth stops. Growth rate declining overall. Irrigate to maintain growth. This level of PMS required for stress response, i.e. to limit vegetative growth or stimulate flowering.

* PMS GIVEN AS RANGE FROM PREDAWN (BEFORE SUNRISE) TO MID-DAY STRESS LEVELS