The following advances in technology for measurement of water potential are described: (1) A thermocouple for direct attachment to plant leaves; (2) a microchamber for studying plant responses to environment is described. Light intensity and duration, ambient temperature, relative humidity, and CO2 concentration are controlled. Transpiration, CO2 assimilation, and plant and soil water potential are measured. Data for the ratio of transpiration to CO2 assimilation for cotton are given. Moderate salinity increased this ratio. Description of a contact closure distributor to make a data acquisition system serve as a control device as well as a recorder is given. Also described is a tape editor for handling output data from the system. Preliminary results from experiments to determine how plants integrate time varying salinity indicate that transpiration per unit leaf area is decreased by salinity. (Author).
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