> \&M Helps With akistan Program $=2$

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ment, to assist
Gray said.



# Professor Builds Electrical Device 

| An A\&M agronomy professor has assembled an electrical device which promises to provide more accurate information on when cotton should be irrigated. <br> The gadget, described in a technical paper as 'A Thermoelectric Method for Determining the Rate of Water Movement in Plants," is | The thermoelectric system is the handiwork of Dr. Morris Bloodworth, professor of soil physics at A\&M. He says a reading from the instrument, in measuring stem water flow, actually samples climate and soil water availability. There are already a number of instruments in use to determine | measures water holding force of soil particles. Another method is electrical resistance units that indicate soil moisture indirectly by measuring electrical resistance of a porous cell buried in the soil within the root zone. <br> A third system is the neutron moisture meter which uses radio | is the standard gravimetric, or soil sampling method which indicates the amount of water in the soil but not its availability for plant use. <br> The four instruments already in use measure soil conditions only, when relative humidity, transpiration, wind and other factors also | The thermoelectric method sists first of brief local application By using a thermistor (an electri-cal-type resistor which varies with temperature) in external contact with the stem $3 / 4$ inch above the heat point, the time required for transfer of the warmed water |
| :---: | :---: | :---: | :---: | :---: |
| an arrangement of wires, batteries, and screws which somehow does just that-measures the rate of sap flow in the plant stem. | if a cotton field needs moisture But they merely sample one aspect of a plant's environment. There is the tensionmeter, which | active materials. Metal tubes sunk into the ground allow a neutron probe and counting device to measure soil moisture. Finally, there | should be considered. Bloodworth says this overall picture is the purpose of this thermoelectric instrument. | the stem in measured. <br> Rate of fluid movement in the stem can then be determined from the time. |

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