

For Release
April 15, 1939

By Maj. A. H. Thiessen
Science Service Meteorologist

Transpiration! When water is carried up from the roots of plants to the breathing pores of leaves and other vegetal surfaces and then evaporated, it is called "transpiration." Weather elements affect the amount of water transpired, which may vary, according to the crop, from four to ten inches of depth over the entire area occupied by the crop, and this is taken into account by flood engineers. The higher the temperature and wind the greater the amount of water transpired as both increase evaporation and plant activity is increased with higher temperature. Plants use less water when the humidity is high and transpire more freely with increased sunlight and soil moisture.
