

**Recommendation for:
Time of Concentration in Harris County
(Revised 02/15/2002)**

Goal: If the time of concentration (TC) for a particular subarea is less than time step used in the HEC-HMS model, HEC-HMS will automatically adjust the value of TC and set it equal to the time step. Determine a method for resolving this issue without compromising the integrity of the final discharges.

Recommended Procedure: It is recommended that the time step be set equal to the smallest TC value in the watershed.

Assumptions: By reducing the time-step down to a value consistent with the smallest TC value, it ensures that the entire watershed can be analyzed without significantly altering the peak runoff from some subareas.

Testing Procedure: No testing was done for this recommendation.

Test Results: No testing was done for this recommendation.

Final Notes: Be aware that changes to the time step will necessitate changes to the number of routing steps for reach routing using the Modified Puls method.

Committee Resolution: Use 15-minute time steps. This problem could be an indicator that a particular subarea is too small. Therefore, use the recommended procedure only if it is determined that the subarea delineation is reasonable and cannot be combined with another subarea.