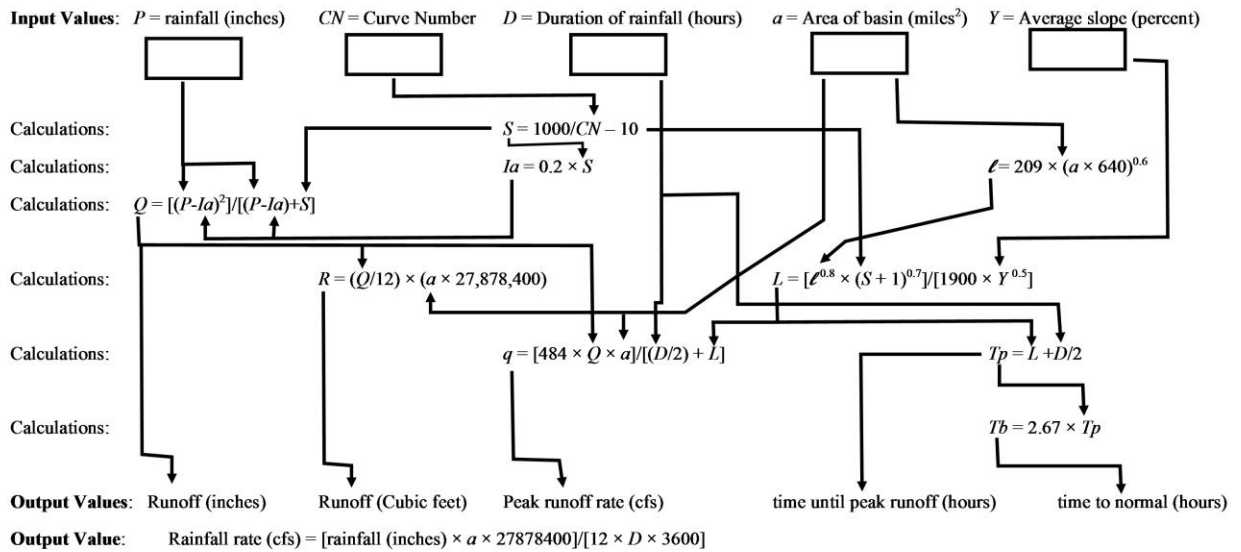


Figure 7.7

Example algorithm for a computer simulation activity simplified from the empirical rainfall runoff model published in 1973 by the Soil Conservation Service



Curve number = CN = a measure of how much water runs off versus how much soaks in, evaporates, transpires through plants, accumulates in pools, etc. This number depends on the type of soil, the condition of the soil, and the type of cover over and in the soil.

Selected CN Values (for good hydrologic conditions):

	Sandy Soil	Clay-rich Soil
Straight row small grain crops	65	88
Woodlands	25	77
Urban: Commercial and business	89	95

An example spreadsheet simulation using MS Excel can be obtained from the authors on request or downloaded at http://web.mnstate.edu/colson/D2L-unlinked/Simple_runoff_algorithm.xlsx.