Example 1.

Water catchment has experience a 12.7 cm of total rainfall. The catchment is covered by pasture with medium grazing and 32 % of B soil and 68% of C soils. This event has been preceded by 6.35cm of rain in the last 5 days. Follow the SCS methodology; determine the direct runoff for the 12.7cm rain event.

A fair hydrological condition is chosen for the pasture with medium grazing. The runoff curve numbers are CN = 69 for B soils and CN = 79 for C soils. The weighted CN is:

CN = (69\*.32) + (79\*.68) = 76

Since the event is preceded by substantial rainfall in the last few days, AMC III is chosen. From the CORRESPONDING RUNOGG FOR THREE AMC CONDITIONS for AMCII CN = 76, AMC III CN = 89. Using equation 5.9 from Text book (page 157), with CN = 89 and P=12.7cm a value of Q = 9.58cm is obtained.

Example 2 is from <http://www.coic.org/cd/stormwater/docs/Manual/Chapter05.pdf> on CN calculations

