Supplement of

Shallow water table effects on water, sediment, and pesticide transport in vegetative filter strips – Part 1: nonuniform infiltration and soil water redistribution

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Supplementary materials

S1. Program distribution.

Free open source code, documentation and sample applications can be downloaded from http://abe.ufl.edu/carpena/software/swingo.shtml
FLOWCHART: SWINO.F
INfiltration under shallow water table

NOTES: ip = initial ponding at t=0
WT = water table
zw = effective depth to WT
WTD = total depth to WT
tend = end of simulation
NPOND=1 (ip); s=0 (no-ip)
NFORCE= surface flooding is forced (i.e. by a lateral field
condition) at SCHOK (=1)
fw = infiltration under BC 1-3 (b=tw)
L = storm period (L=LO new period)
Gray color: redundant with other cases

CASE 2

If (NPFORCE=1) t = fw
If (NPFORCE=1) t = min(ztw)
F = F = dt, tw
z = zw

CASE 2

CASE 3

T = t - GA
F = F - GA
z = GA

T = dt, f

CASE 3

CASE 3