
Chapter 9

Hydrologic Soil-Cover Complexes

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FL630.0901 Estimating curve number for containerized nursery production on geotextiles

The TR-55 curve number table does not have a value for areas covered with geotextile. The closest approximation would be Artificial Desert Landscaping (impervious weed barrier, desert shrub with 1-2 inch sand or gravel mulch and basin borders).

Literature values for a ground cover of geotextile do not currently exist. Dr. Thomas Yeager of the University of Florida currently has a research project to measure runoff values for geotextile, so this amendment will be updated when that work has been completed.

The values presented in Table FL2-2e are based upon professional judgment and upon consultation with other engineers from the NRCS National Office and the NRCS Water and Climate Institute.

Table FL9-3 - Runoff curve numbers for containerized nursery operations in Florida^{1/}

-----Cover description----- cover type and hydrologic condition	-----CN for Hydrologic soil group-----			
	A	B	C	D
Nursery production area, geotextile ^{2/}	94	95	96	96
Nursery production area, geotextile underlain with impermeable barrier such as black plastic	98	98	98	98
Nursery production area, geotextile underlain with porous material such as crushed rock (the geotextile should have high permeability)	88	90	92	94
Access Roads - Dirt	72	82	87	89
Access Roads - Gravel	76	85	89	91
Access Roads - Paved	98	98	98	98
Greenhouse Roof	98	98	98	98

^{1/} Average runoff condition, and $I_a = 0.2S$

^{2/} Curve numbers are based upon expert opinion in consultation with Engineers from the Water and Climate Institute and with the National Hydraulic Engineer. Currently, Tom Yeager with IFAS is working on a research project to determine runoff amounts from different geotextiles used in the nursery production industry. Once this research is completed, this amendment will be modified to include research data. Professional experience should be used in the application of these curve numbers. If curve numbers other than those listed above are used for geotextiles, then the basis for that decision should be documented.

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