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NEW JERSEY BULLETIN NO. NJ210-3-1

SUBJECT: ENG – Engineering Field Handbook Supplement
Dimensionless Unit Hydrograph

Purpose: To distribute a supplement to Chapter 2 of the Engineering Field Handbook regarding use of dimensionless unit hydrographs for modeling agricultural watersheds.

Effective Date: Effective upon receipt.

With the enhancement of NRCS modeling tools commonly used in the hydrologic design of conservation practices including EFH2 and WinTR55, it is now easier to vary the dimensionless unit hydrograph as a model input. Historically, the Standard Unit Hydrograph has been applied throughout New Jersey. Now, the Delamrva Unit Hydrograph may be used in modeling agricultural watersheds in the Coastal Plain that are characterized by flat topography (average watershed slope less than 5 percent), low relief, and significant surface storage in swales and depressions. Use of the Delamrva Unit Hydrograph will not affect the determination of runoff volume, but should result in lower peak discharges when compared to the Standard Unit Hydrograph.

Filing Instructions: Insert the attached supplement at the end of Chapter 2 in the Engineering Field Handbook.

DAVID LAMM, PE
State Conservation Engineer

Enclosure

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