



Natural Resources Conservation Service
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NEW JERSEY BULLETIN NO. NJ210-12-1

SUBJECT: ENG – Engineering Field Handbook Supplement
Chapter 2, Estimating Runoff and Peak Discharges

Purpose: To distribute a supplement to Chapter 2 of the Engineering Field Handbook (EFH) revising rainfall data and storm distributions for New Jersey.

Effective Date: Effective upon receipt.

Based on updated rainfall data from NOAA, NRCS has developed new storm distributions for use with EFH-2 and WinTR-55. New Jersey has two new rainfall distribution regions: Region C covering the counties of Sussex, Warren, Hunterdon, Somerset, Mercer, Burlington, Camden, Gloucester, Atlantic, Salem, Cumberland, and Cape May; and Region D covering Bergen, Hudson, Essex, Passaic, Morris, Union, Middlesex, Monmouth and Ocean. The new rainfall distributions replace use of the TYPE III distribution in New Jersey. The 24-hour rainfall-frequency data has been updated as well with only minor variations for some of the counties.

EFH-2 users: Storm distribution and unit hydrograph are not direct inputs in the software; rather a rainfall type is selected. Four rainfall types apply to New Jersey: NOAA-C, NOAA-D, DMV_C and DMV_D. In the non-coastal plain area of the State, NOAA-C is applicable to Region C and NOAA-D for Region D. Similarly, DMV-C applies to the coastal plain portion of Region C and DMV-D to the coastal plain portion of Region D.

WinTR-55 users: Storm distribution and unit hydrograph are separate inputs in the software. Distribution NOAA_C and NOAA_D apply to Region C and Region D, respectively. The DELMARVA unit hydrograph may be used in the coastal plain physiographic region. The standard unit hydrograph should be applied in all other physiographic provinces.

WinTR-20 users: Site specific rainfall and distribution data available from NOAA's Precipitation Frequency Data Server located at <http://www.nws.noaa.gov/ohd/hdsc/> should be used.

For NRCS personnel, contact your Engineering Specialist for assistance in loading the new data files appropriate to the software you are using. ITS assistance may be required depending on your operating system. Until the software tools are updated at the National level, outside users of NRCS hydrology software tools may access the regional storm distribution files and updated rainfall data at <http://www.nj.nrcs.usda.gov/technical/engineering/> .

Filing Instructions: Remove the October 2008 rainfall table and replace with the attached update.

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