



Natural Resources  
Conservation Service

June 8, 2017

State Office  
PO Box 1458  
Bismarck, ND  
58502-1458  
Voice 701.530.2000  
Fax 888.813.7556

**National Engineering Manual (Second Ed.)  
Part 650 – Engineering Field Handbook, Notice ND-15**

**SUBJECT: ENG – UPDATE TO ND SUPPLEMENT OF ENGINEERING FIELD  
HANDBOOK (EFH) CHAPTER 2**

Purpose: The purpose of this bulletin is to inform field office personnel of a change in rainfall data used for calculating runoff and peak discharges. NOAA has recently released new rainfall data in ATLAS 14, Volume 8 for the Midwest region. The new rainfall data and rainfall distributions will replace rainfall data from the U.S. Weather Bureau Technical Paper 40 (TP-40) and the standard NRCS rainfall distributions Type I, Ia, II, and III, the U.S. Weather Bureau TP-49, and the NOAA Technical Memo Hydro-35. The data will also replace all previous rainfall data in Chapter 1 of the North Dakota Hydrology Manual. Updated rainfall maps have been created and are to replace those found in Figures 1-2 – 1-11 and 1-16 – 1-21 of that manual. These maps can be located on the Engineering page of the North Dakota NRCS website <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/nd/technical/engineering/?cid=stelprdb1269591>. The files are located under the Engineering Field Handbook (EFH) – (NEH Part 650) section. All figures and tables within the North Dakota Hydrology Manual solving for runoff and peak discharge are to be discontinued and no longer used.

The computer program, EFH2, will use the new data once the COUNTY.nd and the type.rf files are placed within the program. These files contain the 24 hour / 1-100 year storm design and the regional coefficients needed to replace the Type I rainfall previously used. These files can be found on the Engineering page of the North Dakota NRCS website under the Engineering Field Handbook (EFH) – (NEH Part 650) section. To identify which region is needed, open the ND\_Distribution\_Regions map located at the website or use the distribution number immediately following the county name once running EFH2.

For instructions on how to load the above files and more information about the new rainfall data, please refer to the North Dakota Supplement to EFH2 available on the engineering page of the North Dakota NRCS website under the Engineering Field Handbook (EFH) – (NEH Part 650) section.

Effective Date: This amendment is effective when received.

Filing Instructions: Remove previous Engineering Field Handbook, Chapter 2 Supplement dated Revised July 1980. Replace with new North Dakota Supplement for Chapter 2 – Estimating Runoff and Peak Discharges. File this notice at the front of the ND Supplement to the Engineering Field Handbook.

CHRISTI FISHER  
State Conservation Engineer

Attachments

DIST: EFH