



Natural Resources Conservation Service
Federal Building, Room 443
10 East Babcock
Bozeman, MT 59715

July 23, 2003

**NATIONAL ENGINEERING HANDBOOK (NEH) FILING SYSTEM (PARTS 600/659)
210-VI
AMENDMENT MT28**

SUBJECT: ENG--DISTRIBUTION OF NATIONAL ENGINEERING HANDBOOK (NEH), PART 651, AGRICULTURAL WASTE MANAGEMENT FIELD HANDBOOK, CHAPTER 10, COMPONENT DESIGN, REVISED TABLE OF CONTENTS, NEW PAGES TO THE MONTANA SUPPLEMENT, "SIMPLIFIED AG-WASTE METHOD, VERSION 1.1." AND MONTANA TABULATION SHEETS

Purpose. To transmit **ONLY TO THE ENGINEERS** an alternative methodology for the example problems listed in the new pages to the Montana Supplement to the National Engineering Handbook (NEH), Part 651, Chapter 10, Component Design, Amendments MT24 and MT27, "Simplified Ag-Waste Method, Version 1.1", and tabulation sheets for Parts 600/609 – General and Part 651 – Agricultural Waste Management Field Handbook.

Effective Date. This amendment is effective upon receipt.

Explanation of Material. This material **ONLY TO THE ENGINEERS** provides the engineer with alternative tools to analyze the required components for ag-waste designs from feedlots in Montana. The emphasis is to design a delivery system for nutrient-laden runoff from feedlots to a vegetated area that can capture and fully utilize the nutrients within the plant's root zone. This method should produce answers similar to the Simplified Ag-Waste Method, Version 1.1 previously distributed under 210-VI, Amendment MT24 dated December 2002 and Amendment MT27 dated May 2003. The Detailed Method can be used for feedlots of any size (the Simplified Method is limited to three acres or less). The Detailed Method entails the use of a water budget spreadsheet, the NRCS Win TR20 (hydrology computer program), and the ARS Surface Irrigation (SRFR) computer program. Instructions for the proper use of these tools and the solution methodology for the example problems listed in Amendment MT24 and MT27 are presented. The data files relevant to the solution methodologies can be found in the Detailed Ag-Waste Method folder of the Montana NRCS ftp web site: <http://www.mt.nrcs.usda.gov/technical/eng/worksheets.html>.

Filing Instructions. In the National Engineering Handbook (NEH), Part 600/609 – General, replace and insert the updated Montana Tabulation Sheet, followed by the Montana Amendment 28 transmittal letter. In the National Engineering Handbook (NEH), Part 651 – Agricultural Waste Management Handbook, replace and insert the green updated Montana tabulation sheet.

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In Part 651, Ch. 10, after the index tab, Table of Contents, remove pages MT10-iii and MT10-iv, Amendment MT24 dated December 2002 and insert revised pages MT10-iii and MT10-iv, Amendment MT28 dated July 2003. After pages MT10(EX-19) insert pages MT10(EX-19)(a)(1) through Appendix 4, pages MT10(EX-19)(a)(A4-4), Amendment MT28 dated July 2003.

Please contact Geoff Cerrelli at (406) 587-6853 or ReNae Grantier at (406) 587-6822 if you have any questions or concerns.

/s/ by Dave White on (7/23/03) / rg

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State Conservationist

Enclosures

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