

# Summary of Revisions to WI NRCS 590

version July 31, 2015



Many of the proposed content changes are required by USDA NRCS National 590 Standard. Other proposed content changes are from members of the SOC 590 standard revision team to improve Wisconsin's 590 standard. Several sections were only re-formatted to minimize redundancy and clarify the intent of the language presented.

The majority of revisions to the previously released March 23<sup>rd</sup> draft documents are related to winter spreading prohibitions in V.A.2.d. and the Technical Note WI-1.

Standards users and reviewers are highly encouraged to review all definitions in the standard to fully understand the intent of the language. The words that have definitions associated with them are now italicized each time they appear in the standard, not just the first time. A summary of the content changes are listed below.

## WI NRCS 590 Nutrient Management Standard Proposed Revisions

### V. Criteria

This standard applies to all fields where plant nutrient sources and soil amendments are applied during the course of a rotation. This section establishes requirements for planning, design parameters, acceptable management processes, and performance requirements for nutrient management plan development and implementation. Nutrient management plans shall be prepared according to all of V. Criteria A., B., C., D., and E., as well as VII. Plans and Specifications, and VIII. Operations and Maintenance. [compliance is not required in ATCP 50 for Criteria V. D., and E and VI. Considerations. ATCP 51, Livestock Siting also excludes following V.A.2.b., a locally identified manure spreading prohibition.]

V.A.1. – Updated with UWEX Pub. A2809 recommendations

V.A.1.a. – Use of Adaptive Nutrient Management strategies

V.A.1.c. – Requirement to include a Winter Spreading Plan

V.A.1.d. – Calculation of a manure-land base estimate

V.A.1.i. – Supplemental N use

V.A.1.l. – Manure sample analysis, consideration of analysis of ammonium N

V.A.2.a.(3) – 50 foot prohibition around all direct conduits to groundwater

V.A.2.b. – Manure application prohibition on locally identified areas contributing runoff to direct conduits to groundwater

V.A.2.c. – Prohibitions for manure spreading near regulated water sources

V.A.2.d. – Prohibitions when spreading on frozen or snow-covered soils prevents effective incorporation

V.A.3. – Deletion of Table 1

V.A.3.a. – Addition of option for application on non-frozen ground within a SWQMA, if applying on no-till ground

V.A.3.b. – Restrictions of liquid manure within a SWQMA or on areas where subsurface drainage is present

V.B. – Nitrogen Management Criteria

V.D. – Additional strategies for protecting air quality where identified as a resource concern

**VI. Considerations** – Additional considerations were included to account for changing technologies and varied resource concerns across the state

**VII. Plans & Specifications** A. – More specificity to mapping requirements

VII.A. – Identification of subsurface drainage systems

VII.A. – Create Emergency Action Plan to address potential discharges from tile lines

VII.B. – Revised Winter Spreading Plan requirements

**VIII. Operations & Management** – Additional requirement to visually monitor tile outlets before, during, or after liquid manure applications

**X. Definitions** – Several definitions were modified or added for clarification

### **WI Conservation Planning Technical Note – 1 Proposed Revisions**

Some language of the Tech Note was deleted to minimize redundancy with the 590 standard. More information and resources were included to provide the ‘how-to’ guidance to complete the requirements of the 590 standard.

Part I.C.10. – Inclusion of pastures in a NMP

Part II. – Requirements for Winter Spreading Plan implementation maps and documentation.

Part III.B.3.c. – Consideration of Nitrogen Leaching Index

Part III.B.4. – Clarification of first year annual N removal by legumes and companion crops

Part III.C. – Definitions and examples of types of ephemeral erosion

Part III.D. – Subsurface Drainage resources

Part IV. – Deletion of examples and other information. More complete explanatory text about manure nutrient availability, a reference to manure testing, the formula for calculating credits, and example calculations are found in UWEX Pub. A2809 and other primary sources listed.

Part V. – Update of DNR Contacts

Appendix 3. Inclusion of Guidelines for Adaptive Nutrient Management