

**Winter 2015 Nutrient Management Planners CEU Training**  
**Introduction to Manure Management Planner,**  
**WV 590 Standard CNMP development**  
**And**  
**Fertility Recommendation Spreadsheet**

This training will include a variety of topics that will enable USDA NRCS planners to generate Comprehensive Nutrient Management Plans using the West Virginia version of “Manure Management Planner” software. USDA cooperating farmers with manure storage systems or those contracted to add manure storage systems must use this planning system to meet the 590 Standard. Topics will include Shapefile development using Geospatial Nutrient Tool (GNT), WV setback criteria and incorporating these features into shapefiles. Adding developed shapefiles to MMP software. Review of MMP data entry with overview of Demonstration farm. Review of RUSLE 2 external version and MMP internal version. Review of new NRCS Comprehensive Nutrient Management Planning policy released October 19, 2015. MMP P-index system, input needs and scenario features. To finish up this set of two day trainings we will introduce the simplified WVU Extension Service Fertility Recommendation Tool (FRT) for small farm operations. This program is primarily focused on USDA planning tools, including customer service toolkit, GNT in ArcGIS 10, RUSLE 2 and MMP. Non-USDA nutrient management planners wanting to attend will be considered if space is available. A MMP training will occur in January that will be targeted to non-USDA staff and will use alternate planning tools including The Missouri Clipper, Windows GIS, RUSLE 2 and MMP.

**If possible please bring your USDA laptop computer for this training**

**Contact Person:** Isaac Wolford

**Dates & Location:** December 1<sup>st</sup> and 2<sup>nd</sup> in Morgantown at the USDA State Office  
 December 8<sup>th</sup> and 9<sup>th</sup> in Beckley, USDA South Area Office

**Lunch:** Lunch \$5 per person per day or bring your own lunch.

**Agenda:**

**Day 1**

Time	Topic	Presenter
8:30 to 9:00	Registration, sign-in, laptop setup,	
9:00 to 9:10	Introduction of 1 <sup>st</sup> day Objectives	Tom Basden
9:10 to 10:00	Laying out the farm with GIS, workflow steps, inventory, GIS handheld tools with exercise	Jackie Strager and Justin Brackenrich
10:00 to 10:50	Setback History, National Setback Database, Spreadsheet and GIS setback steps	Kathy Allen and Jackie Strager
10:50 to 11:05	15 min break	

**Winter 2015 Nutrient Management Planners CEU Training**  
**Introduction to Manure Management Planner,**  
**WV 590 Standard CNMP development**  
**And**  
**Fertility Recommendation Spreadsheet**

11:05 to 12:00	Exercise with all setback features, Discussion of Gibson setbacks	Jackie Strager, Kathy Allen and Justin Brackenrich
12:00 to 12:45	Lunch	
12:45 to 1:35	Importing GIS into MMP and Introduction to MMP,	Jackie Strager first 10 minutes, remainder Tom Basden and Justin Brackenrich
1:35 to 2:25	Entering Production Data into MMP with example exercise	Tom Basden and Justin Brackenrich
2:25 to 2:40	Break	
2:40 to 3:30	Manure production estimates and review of WV P-index	Kathy estimates and Tom P-index

**Day 2**

Time	Topic	Presenter
8:30 to 9:00	Registration, sign in and laptop setup	
9:00 to 9:10	Overview of 2 <sup>nd</sup> day Objective	Tom Basden
9:10 to 10:00	RUSLE –Data collection and analysis of soils, climate, erodibility, rock cover, vegetation files, slope and slope length	Isaac Wolford
10:00 to 10:50	RUSLE – Farm equipment, buffers, contours, crop rotations, comparison of External RUSLE 2 and MMP RUSLE 2, review of RUSLE 2 results and troubleshooting	Isaac Wolford
10:50 to 11:05	break	
11:05 to 11:55	Review of new CNMP policy with old-style plan output and new-style plan output	Isaac Wolford
12:00 to 12:45	Lunch	
12:45 to 1:35	Manure allocation in MMP with exercise	Tom Basden and Justin Brackenrich
1:35 to 2:25	P-index scenario with exercise using Gibson farm	Tom Basden and Justin Brackenrich
2:25 to 2:40	Break	
2:40 to 3:30	FRT Fertility tool spreadsheet	Ed

**Winter 2015 Nutrient Management Planners CEU Training**  
**Introduction to Manure Management Planner,**  
**WV 590 Standard CNMP development**  
**And**  
**Fertility Recommendation Spreadsheet**

*PRESENTER AND TOPIC AREAS*

**Jacquelyn Strager**, WVU Research Coordinator, Natural Resource Analysis Center. Jackie will provide discussion of spatial datasets and USDA tools related to field delineation, setbacks, and general nutrient management.

**Tom Basden**, WVU Extension Service, Nutrient Management Specialist will moderate all sessions and introduce Manure Management Planner software with emphasis on the Phosphorus risk assessment, data entry of soil test results, manure analysis results and application equipment.

**Isaac Wolford**, USDA NRCS, State Agronomist, Morgantown, WV. Isaac will provide a detailed evaluation of the current soil erosion prediction software RUSLE2 and how it is used with Manure Management Planner and also provide a comparison between the stand alone version and the internal MMP RUSLE2 version. Isaac will also provide a detailed update of the current USDA CNMP Policy which was release in mid-October and how these changes will effect NRCS planners in West Virginia.

**Kathy Allen**, USDA NRCS, Agricultural Engineer, Morgantown, WV. Kathy will provide setback history and review the National Setback Database and WV\_CPA\_WS\_590 Manure Application Setback Spreadsheet. She will demonstrate how to estimate manure production.

**Justin Brackenrich**, WVU Agronomy Graduate Student. Justin developed the Gibson Dairy demonstration CNMP using MMP software, with assistance from Brad Durst, the farms nutrient management planner. Justin will be demonstrating MMP software data entry and explaining common questions that occur when using the software.

**Ed Rayburn**, WVU Extension Service, Forage Agronomist will provide an introduction to the WVU Extension Fertility Recommendation Tool (FRT). This spreadsheet tool allows simplified NMPs to be developed using field specific soil productivity. Ed will demonstrate the data entry steps to develop recommendations for hay crop, pasture fields and a vegetable crop example.