

Agricultural Nutrient Management Program
Department of Environmental Science and Technology
0116 Symons Hall
7998 Regents Dr.
College Park, MD 20742
TEL 301-405-1319 | FAX 301-314-7375
www.extension.umd.edu/anmp

NuMan Pro 5.0: Using the Phosphorus Management Tool (PMT) to assess risks of P loss from high P fields

Introduction

According to Maryland State Regulations, under certain circumstances you will need to assess whether phosphorus-bearing materials can be applied to agricultural fields. These circumstances include applying materials containing phosphorus (P):

- to fields with soil test FIV-P greater than or equal to 150
- when an operator wishes to apply starter P on fields with soil test
 FIV-P >100 for crops that have no starter recommendation
 - The stand-alone version of Phosphorus Management Tool (PMT) updated edition 2015 must be utilized for this situation
- when the operator wishes to apply more chemical fertilizer P than is recommended, regardless of the soil test FIV-P score.
 - If an operator wishes to apply more P than is recommended, the P-removal for the crop may not be exceeded. NuMan Pro 5.0 can calculate the P-removal rate.

The Phosphorus Management Tool (PMT) is designed to evaluate the relative risk of P transport from agricultural fields and is incorporated into *NuMan Pro 5.0*. It is currently being phased into use in MD while the Phosphorus Site Index (PSI) has been phased out. For more information on the transition process to PMT, check out the <u>Plan Writing Tools PMT section</u> on the ANMP website. If you'd like to learn more about how to properly calculate the PMT, watch <u>this recorded webinar</u> on the topic. Finally, your go-to resource for calculating the PMT is the <u>PMT Technical User's Guide</u>.

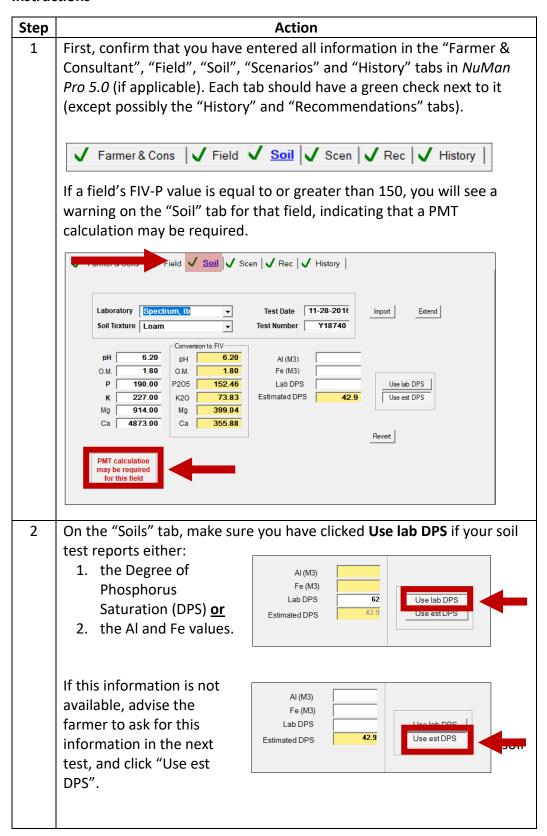
Contents

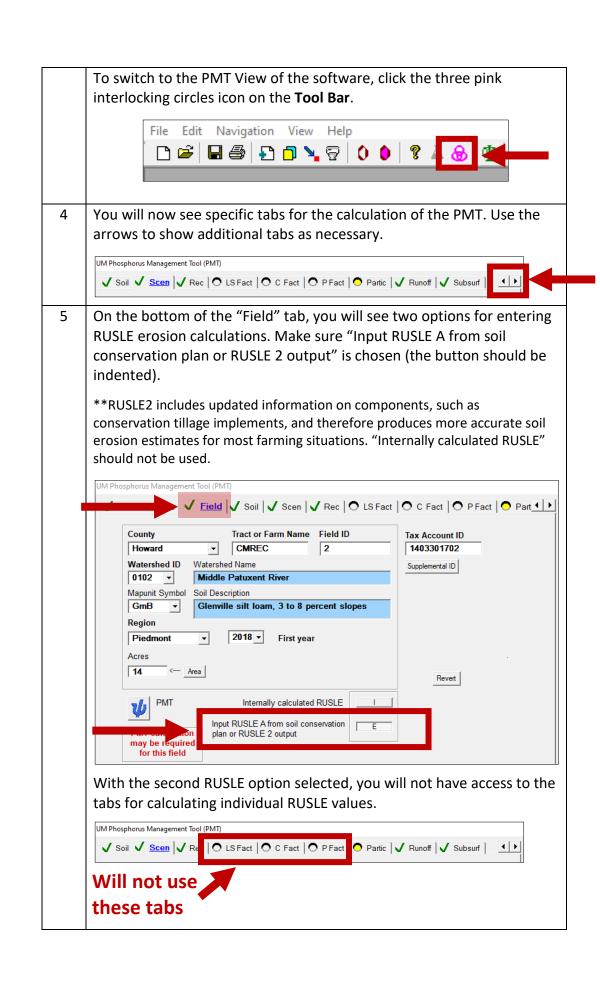
In this document, you will find instructions for:

- Getting started with the PMT
- Entering information in the "Particulate" tab
- Entering information in the "Runoff" tab
- Entering information in the "Subsurface" tab
- Finishing up the PMT

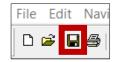
Getting started with the PMT

Instructions





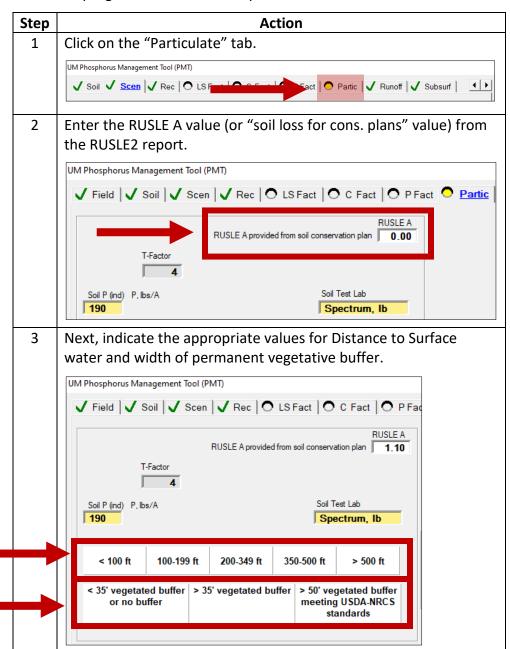
Remember to save your work! There is **no** autosave feature in *NuMan Pro*.

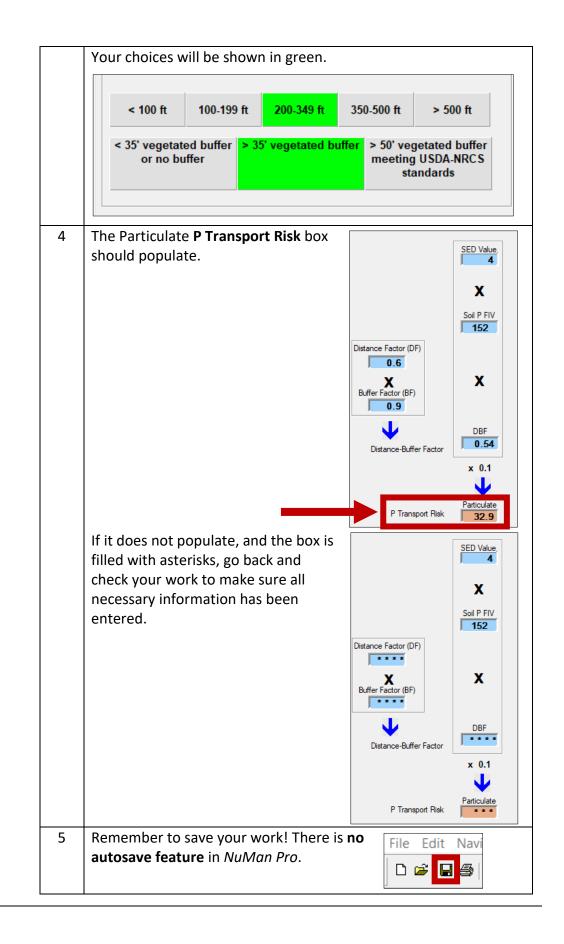


The "Particulate" tab

Instructions

You only have to enter information into the fields with white backgrounds. Fields with yellow backgrounds are populated using information you have entered on previous tabs, and fields with blue backgrounds are calculated within the program based on user inputs.

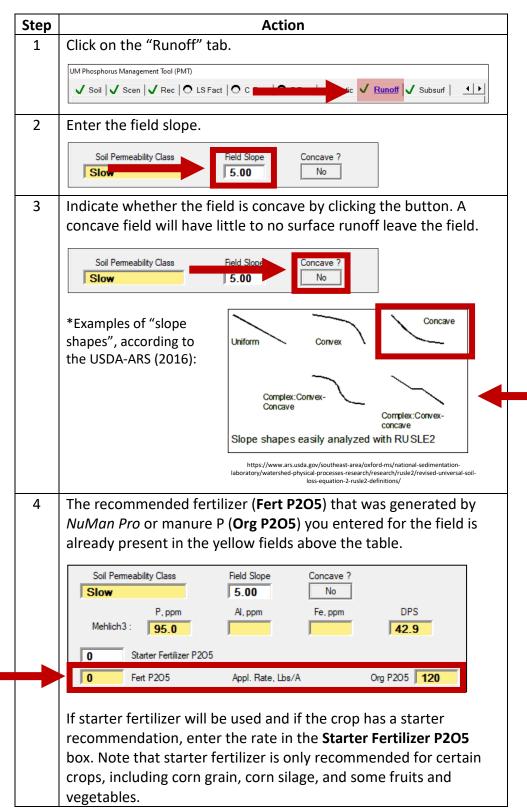


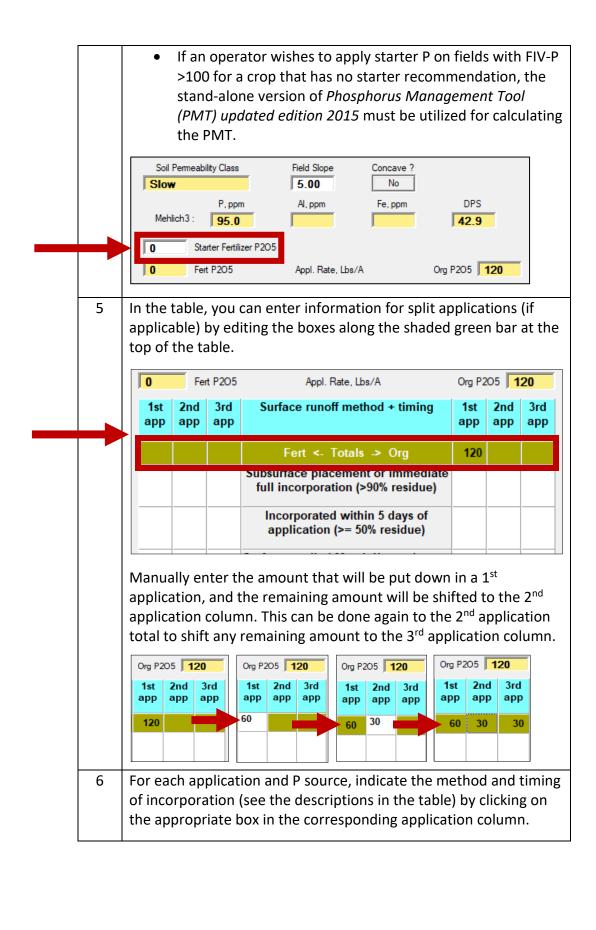


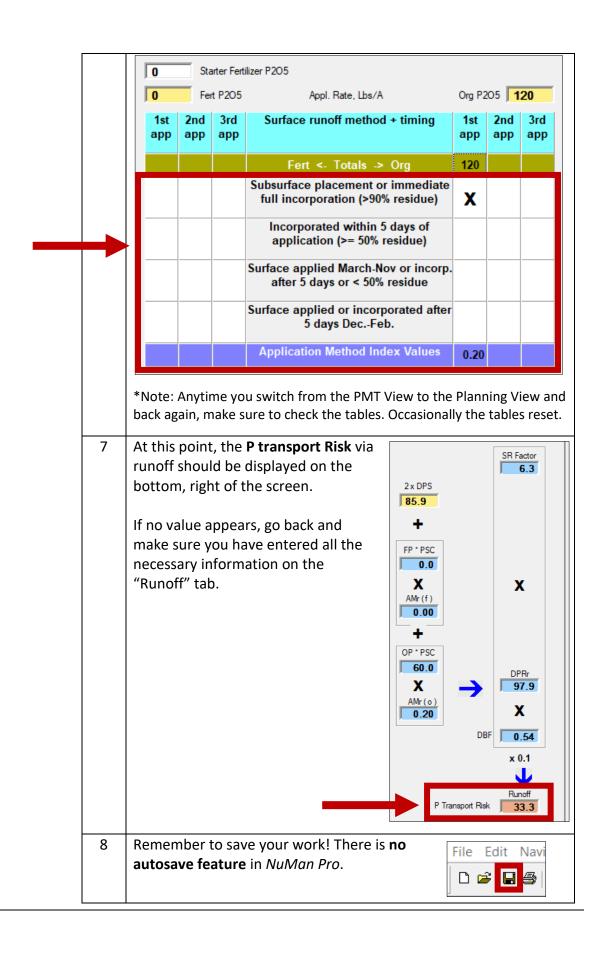
The "Runoff" tab

Instructions

You only have to enter information into the fields with white backgrounds.



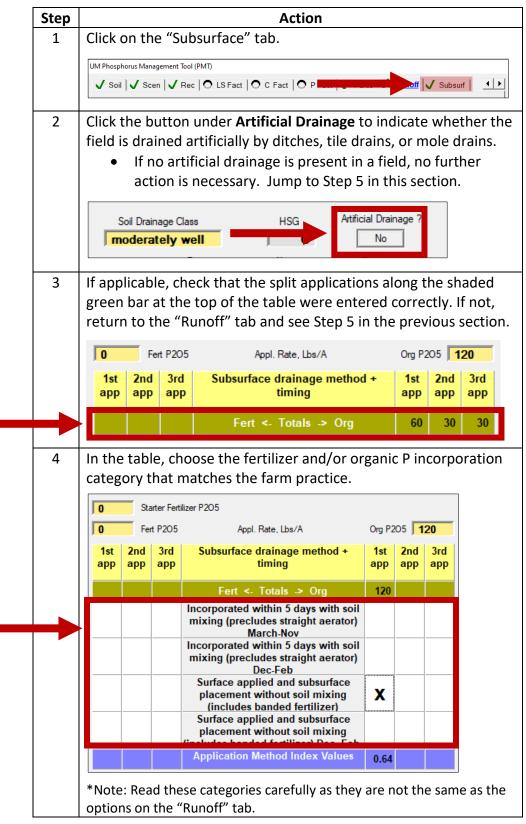


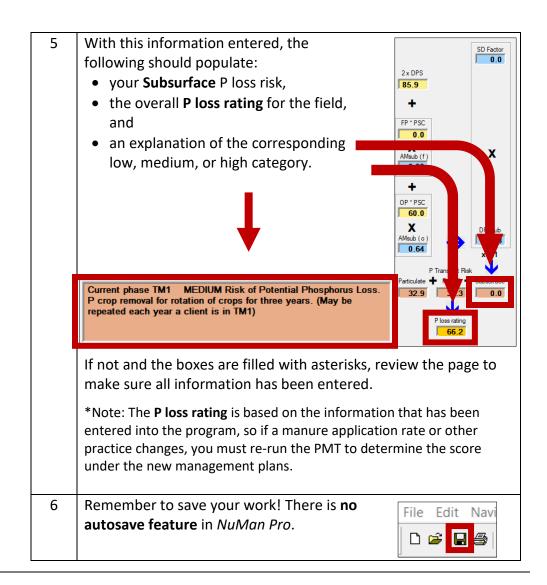


The "Subsurface" tab

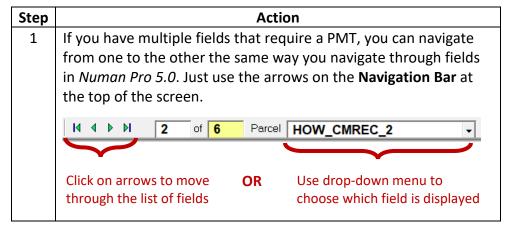
Instructions

You only have to enter information into the fields with white backgrounds.





Finishing up the Instructions PMT



2 To return to the Planning View in *NuMan Pro*, click on the beaker icon on the Tool bar. File Edit Navigation View Help 3 Printing the PMT report is similar to printing other reports in NuMan Pro. See full instructions on the ANMP website under the "Software" tab and in the NuMan Pro 5.0 section -> NuMan Pro Help Guides -> Introduction to the NuMan Pro software. http://www.extension.umd.edu/anmp/software/ After moving the required fields to the "Target List", click on the check box next to PMT, then click "Print". Print List Fertilizer Rec. Source List HOW_CMREC_1 HOW_CMREC_2 TargetList HOW_CMREC_3 HOW_CMREC_4 Organic Rec. Fertigation Rec. HOW CMREC 3 PRem/Trans HOW_CMREC_4 HOW_CMREC_5 Add → Field Information Soil Test Analysis HOW_CMREC_6 Add All -> ✓ PMT <-Rem <−Rem All Print Cancel *Note: You can print from either the PMT View or the Planning View of the software.

4 Remember to save your work! There is **no** autosave feature in *NuMan Pro*.

