

Implementing Nutrient Management Policy with SNMP and MMP: GIS Data Acquisition and Mapping. (S04-lory160647-Oral)

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Abstract:

A team from the University of Missouri and Purdue University has collaborated to create a nutrient management planning software system. This talk focuses on the spatial data tools developed at University of Missouri. The Internet Map Room provides access to digital orthophoto quadrangles (DOQs), digitized soil surveys and many other spatial databases potentially useful for nutrient management planning. The web site uses an internet-based geographic information system (GIS) accessible through a web browser to enable the user to navigate to the farm of interest and then clip out the needed data layers for just that area of interest. The Spatial Nutrient Management Planner (SNMP) modifies the GIS program ArcView 3.2 into a program that is tailored to accomplish the tasks needed for nutrient management planning. SNMP facilitates cataloging of spatial information such as farm and field boundaries, water quality and neighbor setbacks and soil test values. SNMP provides automated mapping tools to present the collected information. Collected data can then be automatically downloaded into Purdue's Manure Management Planner (MMP). These tools can be accessed at www.cares.missouri.edu/snmp/.

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