

Pennsylvania's Nutrient Management Program Newsletter

March 2006

<http://panutrientmgmt.cas.psu.edu>

Upcoming Trainings

- Managing Manure Nutrients Workshop (March 15-16, 2006)
- Stormwater Management & RUSLE Workshop (March 28-29, 2006)
- Phosphorus Index Training (March 30, 2006)
- Plan Writing Workshop (April 5-6, 2006)
- ACA Evaluation Workshop (April 11-12, 2006)
- Plan Review Workshop (April 25, 2006)
- Basic Pasture Management Workshop (April 27, 2006)
- Certification Examination, PDA & Centre County (May 2, 2006)
- Nutrient Management Orientation (May 16-17, 2006)
- Managing Manure Nutrients Workshop (June 5-6, 2006)
- Stormwater Management & RUSLE Workshop (June 20-21, 2006)
- Phosphorus Index Training (June 22, 2006)
- Plan Writing Workshop (June 27-28, 2006)
- ACA Evaluation Workshop (July 18-19, 2006)
- ACA Evaluation Workshop (August 7-8, 2006)
- Plan Review Workshop (August 22, 2006)
- Certification Examination, PDA & Centre County (August 29, 2006)

We've Changed Our Minds - Plan Writing Update Policy

The Plan Writing Workshop is a required training course for all new commercial and public specialists. The July 2005 newsletter included a policy statement addressing how we planned to provide update training for the Phosphorus Index and other changes to the planning process related to revised Act 38 regulations. This policy required that the majority of current specialists would have to attend the two-day Plan Writing Workshop, while the remainder (more recently certified specialists) would be required to participate in a shorter update training.

We have decided after further evaluation that we will hold one or more one-day Plan Writing update training sessions for all certified commercial and public specialists. These dates and locations will be determined as we move closer to the final approval of the regulations.

The main message: Commercial and Public Specialists CURRENTLY holding final or provisional certification SHOULD NOT register for the 2-day Plan Writing Workshop that is offered as part of our normal training cycle. If you have already registered, you will be notified by PDA.

Michael Aucoin
Certification & Education Specialist
PDA Nutrient Management Program

Managing Manure in No-Till Systems

As I participate in the current no-till and other winter meetings, the most frequent concern I hear about no-till is "I have manure." For many years, the only

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- **Cover Crop Meetings**

How To Contact Us

For more information on the Pennsylvania Nutrient Management Program contact:

Pennsylvania Department of Agriculture
Nutrient Management Program
Room G-11, 2301 N. Cameron Street
Harrisburg, PA 17110
717-772-5218
717-783-3275 (FAX)
Email: maucoin@state.pa.us
Web: <http://panutrientmgmt.cas.psu.edu>

Address Changes

In order to receive this newsletter, we must have a current email address. Please send all email and other address changes to Michael Aucoin (contact information above).

Newsletter Contributions

Comments, contribution of articles, or suggestions of topics or issues to be addressed in the newsletter are welcome at any time.
Jerry Martin, Editor

recommended way to manage manure was to apply it and plow it in as soon as possible. There were valid reasons for this recommendation; we would conserve nutrients, we would reduce or eliminate odor, and we were going to plow or do tillage anyway. Today, modern technology provides us with a better way to farm and, particularly, to plant crops without the cost and labor involved in tillage.

Along with this change to no-till, producers need to make decisions relevant to managing crop rotations, cover crops, crop residues and, of course, how to manage manure.

Some steps can be taken to reduce the loss of manure nutrients and, in some cases, odors. The application of manure during cool periods of the year and immediately prior to rainfall events of a half-inch or more can reduce odors and effectively incorporate the nitrogen that might otherwise be lost. Fall application of manure on a cover crop or growing small grain or grass crop can significantly reduce nitrogen losses.

The equipment industry has developed some specialized equipment to shallowly incorporate manure into the soil. These tools include the use of shallow disk injectors, AerWay, rotary harrows, and the Turbo-Till. Although fairly expensive, this equipment allows producers to reduce odors and nitrogen loss, and at the same time reduce soil disturbance and maintain surface residues. Another management technique is to spin cover crop seed on the soil immediately following silage corn harvest and then immediately apply liquid manure as a mulch to help establish an effective cover crop.

Individuals working with producers should discuss the benefits of no-till and management techniques that may help them integrate no-till and manure management into an effective system. This may require additional time and effort, but in the end, it will be beneficial to the producers' long-term productivity and sustainability. One thing that I have found in meeting and getting to know many no-tillers in Pennsylvania and other states is that many of these producers are using their manure to enhance their no-till system.

Joel Myers
State Agronomist
Natural Resources Conservation Service

Records...A Commercial Perspective

It's a new year. I have all ready seen a few snow drops poking through some leaves left over from last year's raking which give me hope that the smell of the earth warming is just around the corner. The more I age, the more I look forward to spring. As we come to spring we will be faced with new record keeping requirements. Even though Act 49 is still in

the regulatory making process and it appears that common sense will prevail, there is still a record keeping revolution ahead.

Act 49, Act 38, ACRE and the CAFO rule all promise to change the way we do business in Pennsylvania, especially as it relates to the transport and application of animal manures. And no matter which of our customers and clients are affected by one or all four of these regulations, enhanced record keeping is here to stay and may affect even the smallest of operations if they are importing manure from a regulated animal operation.

Importers once tickled with the opportunity to utilize valuable animal manure nutrients from neighboring CAOs or CAFOs will need to acquire a taste for a Nutrient Balance Sheet (NBS) or two. If you know me well enough, you know that I write important things on my hand even with a palm pilot and a Franklin Planner on my lap. Writing things on my hand means: "Do this before you take your next shower!" Assuming proper daily hygiene, this means within the next eight hours or less.

These new regulations will require lots of writing things down for our customers and that will mean no longer writing it down on our hands, or tablet we keep in the tractor, or the back of a diner placemat. Records will continue to become an integral part of our nutrient management plans especially as Phosphorus regulations and Nutrient Balance Sheet (NBS) requirements evolve. Keeping accurate records will become routine and crucial to our survival and sanity. Not only will we need to assist our agricultural operations as they expand their capacity to write things down in a timely fashion and have it readily available, but also we will need to manage the volume of records that will need to be generated on the additional dry manure CAFO operations that will need Phosphorus based nutrient management plans and have import/export requirements.

Be also mindful of the Act 49 requirement to communicate to the Conservation District of the importer and exporter prior to moving manure. This will cause a few furrowed brows, some overactive facsimile machines and a few more records to be generated. DEP requires quarterly reports and conservation districts annual, so an operation will want to be able to demonstrate accurate records that reflect the current animal operations and manure management practices. The Nutrient Balance Sheets

(NBS) must be clear and concise for every importing operation whether the manure is cash or carry.

Accurate records not only allow our operations to know what they have done, but it also allows them to plan into the future. Records are proof that you have done some measuring. If you do not measure, you will have a difficult time managing these new regulations. The best records are those that reflect the operation, ones that the operator understands and are readily available in the event of a DEP regulatory inspection or a Conservation District annual review.

Many agriculture operations will need assistance in preparing these documents and educating them on the value of the records related to their manure transport and land application. Many speak philosophically on this issue, while others of us know about the phone calls at 6:00 am or 8:00 pm wondering whether or not there is manure available and if the ground is fit for application. The answer has overwhelmingly been and will continue to be 'yes', but more information will be necessary.

Are you on my list of importers, are you certified as a hauler or a broker, or will you be applying the manure to acreage under your control, is there a current nutrient balance sheet for the acres we are discussing, have you received a recent analysis for that facility or housing unit, are you aware of the setback requirements, do you have an approved designated stacking area, etc., etc. We used to be interested in the tons transported or applied, and the address of the importer for billing purposes; now we will be excited to have importers willing to share with us information about THEIR farm operations. Creating and maintaining accurate records will help them properly utilize and document a valuable resource, which will in turn help our agriculture industry.

Start with a piece of paper instead of your hand. You can use both sides without worrying about losing half of your information when you wash up for supper.

"Give me six hours to chop down a tree and I will spend the first four sharpening the axe."
Abraham Lincoln (1809-1865)

Bill Achor
Environmental Coordinator
Wenger's Feed Mill, Inc.

DEP Issues Revised Regulations for Concentrated Animal Feeding (CAFO) and Other Agricultural Operations

On October 22, 2005, the Department's final revised CAFO and Other Livestock Agricultural Operations regulations were published in the PA Bulletin. These regulations are an integral part of Governor Rendell's ACRE initiative, which is a comprehensive solution to nutrient management problems in the Commonwealth. In addition, the revisions bring Pennsylvania's program in line with the Federal CAFO rule, so that the Commonwealth can maintain delegation authority for EPA's NPDES program.

The CAFO permitting program has been expanded to include: poultry operations that use dry manure handling systems and are Concentrated Animal Operations (CAOs) with more than 300 Animal Equivalent Units (AEUs) or that have 1,000 or more AEUs; horse operations that are Concentrated Animal Operations (CAOs) with more than 300 Animal Equivalent Units (AEUs) or that have 1,000 or more AEUs; or any animal operation defined as a large CAFO under 40 CFR122.23. This would include operations that exceed one of the following thresholds: 700 mature dairy cows, whether milked or dry; 1,000 veal calves; 1,000 cattle other than mature dairy cows or veal calves; 2,500 swine each weighing 55 pounds or more; 10,000 swine each weighing less than 55 pounds; 500 horses; 10,000 sheep or lambs; 55,000 turkeys; 30,000 laying hens or broilers, if using a liquid manure handling system; 125,000 chickens (other than laying hens) if using a dry handling system; 82,000 laying hens if using a dry handling system; 30,000 ducks, if using a dry manure handling system; or 5,000 ducks, if using a liquid manure handling system. Operations with over 1,000 AEUs and CAOs with over 300 AEUs have been and will continue to be included in the permit program.

Due to the large number of anticipated permits for the poultry industry, two deadlines have been established for the submission of applications by this industry to the Department. Dry poultry CAFO operations with more than 500 AEUs must apply by April 24, 2006. Dry poultry CAFO operations with less than 500 AEUs must apply by January 22, 2007. Other newly regulated CAFO operations, such as

horses, or other existing operations that exceed one of the Federal threshold numbers, must apply by April 24, 2006. Newly proposed CAFO operations and existing operations that want to expand to become a CAFO must submit an application at least 180 days prior to beginning or expanding their operation.

Regulations for other livestock agricultural operations have been revised as well. After October 22, 2005, new or expanded liquid or semi-solid manure storage facilities require a water quality management permit if: the facility is a pond with a storage capacity greater than 1 million gallons in a high quality or exceptional value watershed or in a watershed that is impaired from nutrients from agricultural activities; or the storage capacity is 2.5 million gallons or more, regardless of type of facility and location.

The other major revision for livestock operations involves land application. After October 22, 2005, the following operations must not apply manure within 100 feet of surface water (a stream, lake or pond), unless a vegetated buffer no less than 35 feet in width has been established: CAOs and agricultural operations that receive manure from either a CAO or CAFO, directly or through a broker. A similar, though slightly more stringent requirement applies to CAFOs as well.

A complete copy of the regulations can be found in the October 22, 2005 edition of the PA Bulletin, as well as on the Department's website at: http://www.dep.state.pa.us/dep/deputate/watermgt/wqp/wqp_wm/cafo_home.htm. Questions may be directed to your appropriate DEP office.

Bob Gibson
Nutrient Management Section Chief
Department of Environmental Protection

Update on the Pennsylvania No-Till Alliance and No-Till in Pennsylvania

The Pennsylvania No-Till Alliance will celebrate its first anniversary in March. An annual meeting will be held on the evening of March 14th at the Ramada Inn in State College. A daylong no-till educational conference, "Growing No-till In Pennsylvania" will be held on March 15th, also at the Ramada Inn.

The featured speaker for this event will be Don Reicosky, a soil scientist with ARS in Minnesota. Don is recognized world wide for his work in the relationship of soil carbon and long-term no tilling. You will enjoy his presentation.

Also speaking, Bill Curran, Professor of Weed Science of Penn State, will discuss management of weeds in long-term no-till systems. Les Vought, Forage Management Specialist from the University of Maryland, will discuss the benefits and management tips associated with establishing forages using no-till planting.

In a fast moving session, the No-Till Alliance Board will provide the audience with 40 no-tilling tips taken from their own experiences. Finally, for those just transitioning to no-till, Joel Myers, State Agronomist with NRCS, will discuss how to make the transition to no-till easier than you might have thought.

For registration information for this conference contact Dr Sjoerd Duiker at Penn State University, Department of Crops and Soils (814-863-7637), Joel Myers with NRCS in Harrisburg (717-237-2220 or 814-422-0655), Susan Parry, Capital Region RC&D Coordinator in Middletown (717-948-6633), or Jay Braund of DEP in the South Central Regional office (717-705-4784).

One primary objective of the No-till Alliance is to provide producers and others with updated information on starting and managing no-till systems and the benefits of these systems. The Alliance has supported eight regional no-till meetings this winter throughout Pennsylvania. Numerous field days are also being scheduled for this summer. Benefits for Alliance members include discounts for meeting registration, discounts for subscriptions to the national *No-Till Farmer* Newsletter, as well as networking current information to no till members. For more information on the Pennsylvania No-till Alliance, contact one of the individuals mentioned above.

Joel Myers
State Agronomist
Natural Resources Conservation Service

Cover Crop Meetings

A series of cover crops meetings will be held August 1, 2006 at the Clarion Holiday Inn, August 2, 2006 at the Country Cupboard, Lewisburg, and August 3, 2006 at the Grantville Holiday Inn. These sessions are being sponsored jointly by the State Conservation Commission and the Keystone Chapter of the Soil and Water Conservation Society.

These meetings are intended for producers and those working with producers. They will address the use of cover crops in the context of nutrient management regulations, to improve soil quality, reduce soil erosion and as a part of continuous no-till planting systems. CCA and nutrient management credits will be offered.

Detailed agendas and registration materials are currently being developed. For more information, contact Jamie Ulrich (aulrich@state.pa.us) or Joel Myers (joel.myers@pa.usda.gov).

Joel Myers
State Agronomist
Natural Resources Conservation Service

Pennsylvania Nutrient Management Education Program Certification Workshops and Training Opportunities

Registration is required for all workshops! No walk-ins please!
Please register no later than one week prior to the training date.

Managing Manure Nutrients Workshop

March 15 & 16, 2006

Centre County Solid Waste Authority
State College

9:00 am - 4:00 pm (3/15)
8:00 am - 3:30 pm (3/16)

This crucial background-training workshop provides a foundational understanding of the primary crop nutrients – nitrogen, phosphorus and potassium. **Participation in this workshop is strongly suggested before attending the Plan Writing and Plan Review workshops.** Basic soil fertility concepts are introduced – nutrient cycles and behavior, managing nutrients for crop production and environmental protection, soil sampling and analysis, and crop nutrient recommendations. Presentation of key manure nutrient management topics builds on this groundwork. This includes discussion on manure types and production calculations, manure variability, manure sampling, nutrient contents and availability factors, long term manure nutrient contributions and environmental impacts. **Bring calculators, Penn State Agronomy Guide, and Nutrient Management Technical Manual.** Coffee and donuts provided. Lunch on your own.

Stormwater Management & RUSLE Workshop

March 28 & 29, 2006

Myers Farm
Spring Mills, Centre County

9:00 am - 3:30 pm (3/28)
8:30 am - 3:00 pm (3/29)

All commercial and public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. This training is also mandatory for certification of specialists who write or review nutrient management plans incorporating the P-Index under the SCC Interim Phosphorus Policy and the USDA-NRCS 590 Standard. Workshop provides critical classroom instruction and field exercises on basic concepts and methods used to evaluate field runoff control practices, identify critical runoff problem areas, and select BMPs to address these areas that must be included in an Act 6 nutrient management plan. These topics will be presented in the context of overall conservation treatments systems including the basic principles of soil erosion prediction, using RUSLE to address sheet and rill erosion, considerations to address stormwater concentrated flow concerns, as well as soil quality issues. **Bring calculators, clipboards, slope measuring devices (abney hand levels or clinometers), and appropriate clothing and boots for fieldwork.** Coffee, donuts and lunch provided.

Phosphorus Index Training

March 30, 2006

Myers Farm
Spring Mills, Centre County

9:00 am - 4:00 pm

This training is mandatory for certification of specialists who write or review nutrient management plans incorporating the P-Index under the SCC Interim Phosphorus Policy and the USDA-NRCS 590 Standard. Training provides critical classroom and field exercises on understanding the background and purpose of the Pennsylvania Phosphorus Index, learning how to use the Index to complete a field-by-field evaluation of phosphorus loss to water bodies, and how to incorporate the Index results into the nutrient management planning process for Act 6. **Bring calculators, clipboards, and appropriate clothing and boots for fieldwork.** Coffee, donuts and lunch provided.

Plan Writing Workshop

April 5 & 6, 2006

118 ASI Building
Penn State University

9:00 am - 4:00 pm (4/5)
8:00 am - 4:00 pm (4/6)

All commercial and public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. Workshop prepares all plan writers in developing nutrient management plans that meet the requirements of Act 6 and provide a beneficial tool to farmers to manage their manure and fertilizer nutrients. Topics of discussion include plan requirements, BMP selection, animal and manure inventories, crop yields and nutrient requirements, maps and other program requirements. Participants will use information from a sample farm to develop a nutrient management plan. It is assumed that participants are familiar with the calculations and material presented in the Managing Manure Nutrients Workshop. Therefore, participation in that workshop is a suggested prerequisite for this training. **Bring calculators, Nutrient Management Technical Manual, and Penn State Agronomy Guide.** Coffee and donuts provided. Lunch on your own.

ACA Evaluation Workshop

April 11 & 12, 2006

Berks County Ag Center
Reading, Berks County

9:00 am - 4:00 pm (4/11)
8:30 am - 4:00 pm (4/12)

All commercial and public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. All specialists certified prior to April 2004 must fully complete this mandatory training before their certification renewal date. Workshop provides critical training on how to identify manure management practices and animal concentration areas, how to conduct an evaluation of these areas to determine the adequacy of practices to prevent water pollution, and how to identify BMPs to address identified inadequate manure management practices that must be included in an Act 6 nutrient management plan. These approaches are introduced in the classroom and practically applied with exercises using multiple on-farm situations. **Bring calculators, Nutrient Management Technical Manual, Penn State Agronomy Guide, clipboards, and appropriate clothing and boots for field and barnyard work.** Coffee and donuts provided. Lunch on your own.

Plan Review Workshop

April 25, 2006

PA Dept. of Agriculture, Room 309
Cameron Street, Harrisburg

9:00 am - 3:30 pm

All public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. It is also open to commercial specialists. Workshop focuses on Act 6 planning requirements and will provide public plan reviewers with necessary plan reviewing parameters. Upon registration attendees will receive a copy of a sample plan in the mail to review prior to the workshop. **A review of this plan must be completed and submitted at the training to receive credit for the course.** Walk-ins will not receive credit. It is assumed that participants are familiar with the calculations and material presented in the Managing Manure Nutrients Workshop. Therefore, participation in that workshop is a suggested prerequisite for this training. **Bring calculators, Nutrient Management Technical Manual, and Penn State Agronomy Guide.** Coffee and donuts provided. Lunch on your own.

Basic Pasture Management Workshop

April 27, 2006

Autoport Restaurant
Atherton Street, State College

9:00 am - 4:00 pm

This basic workshop is designed to provide background training for commercial and public specialists on pasture nutrient management. Nutrient loading by grazing animals is determined by pasture production and management approaches. This workshop will focus on the production of pasture forages and their response to various types of

management. Bring calculators, Nutrient Management Technical Manual, and Penn State Agronomy Guide. Coffee and donuts provided. Lunch on your own.

Certification Examination

May 2, 2006

PA Dept. of Agriculture, Room 309

9:00 am - 12:00 noon

Cameron Street, Harrisburg

or

Centre County Solid Waste Authority

State College

Examinations for commercial, public and individual nutrient management specialists will be given. Examination fee of \$50.00 for commercial and public categories must be paid prior to the exam. Examination fee may be paid at the time of registration or the day of the Pre-Certification course. Examination study packets will be available the day of the Pre-Certification course or sent upon receipt of the examination fee. Enclose check payable to 'Commonwealth of Pennsylvania'. There is no fee for individual exams. Advanced registration for all categories and fee payment is required. **Note: Please register for only ONE (1) of these testing locations.**

Nutrient Management Orientation

May 16 & 17, 2006

PA Dept. of Agriculture, Room 309

9:00 am - 4:00 pm (5/16)

Cameron Street, Harrisburg

9:00 am - 12:00 noon (5/17)

All commercial and public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. Training provides a comprehensive introduction and overview to the Act 6 regulatory requirements for nutrient management planning. Introductory nutrient management planning resources will be provided. Coffee and donuts provided. Lunch on your own.

Managing Manure Nutrients Workshop

June 5 & 6, 2006

Centre County Solid Waste Authority

9:00 am - 4:00 pm (6/5)

State College

8:00 am - 3:30 pm (6/6)

This crucial background-training workshop provides a foundational understanding of the primary crop nutrients – nitrogen, phosphorus and potassium. **Participation in this workshop is strongly suggested before attending the Plan Writing and Plan Review workshops.** Basic soil fertility concepts are introduced – nutrient cycles and behavior, managing nutrients for crop production and environmental protection, soil sampling and analysis, and crop nutrient recommendations. Presentation of key manure nutrient management topics builds on this groundwork. This includes discussion on manure types and production calculations, manure variability, manure sampling, nutrient contents and availability factors, long term manure nutrient contributions and environmental impacts. **Bring calculators, Penn State Agronomy Guide, and Nutrient Management Technical Manual.** Coffee and donuts provided. Lunch on your own.

Stormwater Management & RUSLE Workshop

June 20 & 21, 2006

Myers Farm

9:00 am - 3:30 pm (6/20)

Spring Mills, Centre County

8:30 am - 3:00 pm (6/21)

All commercial and public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. This training is also mandatory for certification of specialists who write or review nutrient management plans incorporating the P-Index under the SCC Interim Phosphorus Policy and the USDA-NRCS 590 Standard. Workshop provides critical classroom instruction and field exercises on basic concepts and methods used to evaluate field runoff control practices, identify critical runoff problem areas, and select BMPs to address these areas that must be included in an Act 6 nutrient management plan. These topics will be presented in the context of overall conservation treatments systems including the basic principles of soil erosion prediction, using RUSLE to address sheet and rill erosion,

considerations to address stormwater concentrated flow concerns, as well as soil quality issues. **Bring calculators, clipboards, slope measuring devices (abney hand levels or clinometers), and appropriate clothing and boots for fieldwork.** Coffee, donuts and lunch provided.

Phosphorus Index Training

June 22, 2006

Myers Farm

9:00 am - 4:00 pm

Spring Mills, Centre County

This training is mandatory for certification of specialists who write or review nutrient management plans incorporating the P-Index under the SCC Interim Phosphorus Policy and the USDA-NRCS 590 Standard. Training provides critical classroom and field exercises on understanding the background and purpose of the Pennsylvania Phosphorus Index, learning how to use the Index to complete a field-by-field evaluation of phosphorus loss to water bodies, and how to incorporate the Index results into the nutrient management planning process for Act 6. **Bring calculators, clipboards, and appropriate clothing and boots for fieldwork.** Coffee, donuts and lunch provided.

Plan Writing Workshop

June 27 & 28, 2006

Centre County Solid Waste Authority

9:00 am - 4:00 pm (6/27)

State College

8:00 am - 4:00 pm (6/28)

All commercial and public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. Workshop prepares all plan writers in developing nutrient management plans that meet the requirements of Act 6 and provide a beneficial tool to farmers to manage their manure and fertilizer nutrients. Topics of discussion include plan requirements, BMP selection, animal and manure inventories, crop yields and nutrient requirements, maps and other program requirements. Participants will use information from a sample farm to develop a nutrient management plan. It is assumed that participants are familiar with the calculations and material presented in the Managing Manure Nutrients Workshop. Therefore, participation in that workshop is a suggested prerequisite for this training. **Bring calculators, Nutrient Management Technical Manual, and Penn State Agronomy Guide.** Coffee and donuts provided. Lunch on your own.

ACA Evaluation Workshop

July 18 & 19, 2006

Berks County Ag Center

9:00 am - 4:00 pm (7/18)

Reading, Berks County

8:30 am - 4:00 pm (7/19)

All commercial and public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. All specialists certified prior to April 2004 must fully complete this mandatory training before their certification renewal date. Workshop provides critical training on how to identify manure management practices and animal concentration areas, how to conduct an evaluation of these areas to determine the adequacy of practices to prevent water pollution, and how to identify BMPs to address identified inadequate manure management practices that must be included in an Act 6 nutrient management plan. These approaches are introduced in the classroom and practically applied with exercises using multiple on-farm situations. **Bring calculators, Nutrient Management Technical Manual, Penn State Agronomy Guide, clipboards, and appropriate clothing and boots for field and barnyard work.** Coffee and donuts provided. Lunch on your own.

ACA Evaluation Workshop

August 7 & 8, 2006

Berks County Ag Center

9:00 am - 4:00 pm (8/7)

Reading, Berks County

8:30 am - 4:00 pm (8/8)

All commercial and public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. All specialists certified prior to April 2004 must fully

complete this mandatory training before their certification renewal date. Workshop provides critical training on how to identify manure management practices and animal concentration areas, how to conduct an evaluation of these areas to determine the adequacy of practices to prevent water pollution, and how to identify BMPs to address identified inadequate manure management practices that must be included in an Act 6 nutrient management plan. These approaches are introduced in the classroom and practically applied with exercises using multiple on-farm situations. **Bring calculators, Nutrient Management Technical Manual, Penn State Agronomy Guide, clipboards, and appropriate clothing and boots for field and barnyard work.** Coffee and donuts provided. Lunch on your own.

Plan Review Workshop

August 22, 2006

PA Dept. of Agriculture, Room 309
Cameron Street, Harrisburg

9:00 am - 3:30 pm

All public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. It is also open to commercial specialists. Workshop focuses on Act 6 planning requirements and will provide public plan reviewers with necessary plan reviewing parameters. Upon registration attendees will receive a copy of a sample plan in the mail to review prior to the workshop. **A review of this plan must be completed and submitted at the training to receive credit for the course.** Walk-ins will not receive credit. It is assumed that participants are familiar with the calculations and material presented in the Managing Manure Nutrients Workshop. Therefore, participation in that workshop is a suggested prerequisite for this training. **Bring calculators, Nutrient Management Technical Manual, and Penn State Agronomy Guide.** Coffee and donuts provided. Lunch on your own.

Certification Examination

August 29, 2006

PA Dept. of Agriculture, Room 309
Cameron Street, Harrisburg
or
Centre County Solid Waste Authority
State College

9:00 am - 12:00 noon

Examinations for commercial, public and individual nutrient management specialists will be given. Examination fee of \$50.00 for commercial and public categories must be paid prior to the exam. Examination fee may be paid at the time of registration or the day of the Pre-Certification course. Examination study packets will be available the day of the Pre-Certification course or sent upon receipt of the examination fee. Enclose check payable to 'Commonwealth of Pennsylvania'. There is no fee for individual exams. Advanced registration for all categories and fee payment is required. **Note: Please register for only ONE (1) of these testing locations.**

Registration Form

Registration is required for all workshops! No walk-ins please!
Registration will close one week prior to the training date.
Registrations will not be accepted after that date.

REGISTER BY FAX OR MAIL

FAX: 717- 783-3275

MAIL: Nutrient Management Section, PA. Department of Agriculture, 2301 North Cameron Street, Room G-11,
Harrisburg, PA 17110-9408

COMPLETE THE FOLLOWING

Date _____ Certification Number * _____

Name _____

Business _____

Address _____

Phone Number _____ Email _____

REGISTER ME FOR THE FOLLOWING WORKSHOPS

- _____ Managing Manure Nutrients Workshop – March 15-16, 2006
- _____ Stormwater Management & RUSLE Workshop – March 28-29, 2006
- _____ Phosphorus Index Training – March 30, 2006
- _____ Plan Writing Workshop – April 5-6, 2006
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- _____ Certification Examination, PDA – August 29, 2005

_____ Certification Examination, Centre County – August 29, 2005

* Individuals new to the program who do not have a certification number should complete and submit the Nutrient Management Certification Application form with this Registration Form. This application can be printed from the following website location: http://panutrientmgmt.cas.psu.edu/pdf/nm_certification_application.pdf