

Pennsylvania's Nutrient Management Program Newsletter

July 2006

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

Upcoming Trainings

- 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)
- Act 38 Update Training, Indiana County (August 30, 2006)
- Act 38 Update Training, Dauphin County (August 31, 2006)
- Nutrient Management Orientation (September 5-6, 2006)
- Managing Manure Nutrients Workshop (September 19-20, 2006)
- ACA Evaluation Workshop (October 2-3, 2006)
- Stormwater Management & RUSLE Workshop (October 17-18, 2006)
- Phosphorus Index Training (October 19, 2006)
- ACA Evaluation Workshop (October 24-25, 2006)
- Plan Writing Workshop (October 30-31, 2006)
- Plan Review Workshop (November 14, 2006)
- Certification Examination, PDA & Centre County (December 6, 2006)

Final Regulation Revisions Published

It finally happened! The final revisions to the Nutrient Management Act regulations were officially printed in the Pennsylvania Bulletin on June 3, 2006, and are now available. This is the version of the regulations that will become effective starting October 1, 2006. This version (Volume 36, Number 22) of the regulations can be accessed through the Bulletin website at www.pabulletin.com.

Note that only those sections of the regulations containing revisions were printed in the Bulletin. Therefore, there are several sections of the regulations that do not show up in the Pennsylvania Bulletin because they did not change. The Bulletin contains essentially all parts of the regulations that the planners and reviewers use to write or review nutrient management plans.

The Commission will be printing new "blue book" formatted copies of the final regulations, which will include the entire regulation, including those sections that did not change and, therefore, did not show up in the Bulletin.

I want to thank all of those folks who helped the Commission in developing these revised regulations. The process took close to 4 years, but I think it was a constructive process to develop the most effective and practical regulation we could. I also want to thank all of the planners and reviewers for your patience during these transition years. I know it has been hard, and I really appreciate your understanding and your willingness to work together during these transition years.

These final regulations will go into effect on October 1, 2006. Plans and plan amendments submitted on

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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

or after that date will need to meet all of the new requirements including the new plan format. Also, the new regulations call for existing CAO plans to be amended on their 3-year plan update schedule, to meet the new regulations. Volunteer plans would also need to be revised on that schedule if they wish to remain as volunteers in the program.

Over the next couple of months we will be providing educational materials for farmers and the general public concerning the new regulations. Commission staff are available to speak at any farmer or district meetings you may be involved with to help folks learn about the new regulations.

Thanks again for all your help in making the program work in Pennsylvania.

Doug Goodlander
Director of Nutrient Management Program
State Conservation Commission

Act 38 Update Training

The final revised Nutrient Management Act regulations were published on June 3, 2006 in the Pa Bulletin with an effective date of October 1, 2006. During this period between publication and the effective date of the revised regulations, the Pennsylvania Interagency Education Work Group has established several trainings to update certified Nutrient Management Specialists on the new provisions of the regulations.

The Act 38 Update Training is **mandatory** for all nutrient management specialists (final and provisional plan writers and plan reviewers as of January 1, 2006). Any specialist that has become provisionally certified after January 1, 2006 or is currently attending the certification program is not required to attend. Therefore if you need to take this training you must do so to maintain your certification.

The training will cover regulation changes, standard plan formats, AASL tables and other topics that will bring Nutrient Management Specialists up to date with the changes happening in the Nutrient Management Act program due to the new regulations.

The dates for these trainings will be August 30, 2006 from 8:00am – 5:00pm at the Rustic Lodge in

Indiana and August 31, 2006 from 8:00am – 5:00pm at the Dauphin County Ag Center.

There is a charge of \$5.00 to cover the lunch that will be provided at the meeting.

Checks are to be made payable to:

“Indiana County Conservation District” for the August 30 training.

“Dauphin County Conservation District” for the August 31 training.

Please mail all checks and registration forms to:

Pennsylvania Department of Agriculture
Michael Aucoin
2301 North Cameron Street
Nutrient Management Section Room G-11
Harrisburg, PA 17110

You may sign up for these courses through the newsletter or online at
<http://panutrientmgmt.cas.psu.edu>

Registrations must be received before August 18, 2006

Michael Aucoin
Certification & Education Specialist
PDA Nutrient Management Program

NMP-NBS Standard Format Update

The revised nutrient management regulations for Act 38 (published June 3, 2006, Pennsylvania Bulletin) include a significant change regarding the format of Nutrient Management Plans submitted for approval. The regulations state that, **“A plan shall follow the standardized plan format provided by the Commission, unless otherwise approved by the Commission.”**

In anticipation of this change an NMP-NBS Development Workgroup was formed in May 2005 to work on the development of a standard format for nutrient management plans and nutrient balance sheets. This workgroup consisted of 4 Commercial Specialists, 3 Public Specialists, 2 Penn State Extension representatives, 1 State Conservation Commission representative, 1 PDA NM Program representative, 1 NRCS representative, and most recently 1 DEP CAFO Program representative.

Initial work started with an update of the Required Plan Elements Checklist to be consistent with the revised regulations. A list of required elements for nutrient balance sheets was also developed. The first workgroup meeting focused on the overall approach and philosophy of the plan format. The following key objectives were identified:

- Include all the required elements listed in the regulations.
- Plan must be farmer friendly. In particular, implementation requirements must be clearly set apart, easy to read, understand and implement.
- Plan must be regulator-reviewer friendly. In particular, supporting information must be easy to find, clearly and completely presented, and review efficient.

In addition, the required plan elements were organized into a rough format.

A second workgroup meeting involved fine-tuning the organization and layout of the plan and balance sheet. A key decision of that meeting was to allow the 4 commercial planners on the workgroup to field test the format with actual plans they were writing. These plans would be submitted for review in the new format. A significant number of these “new format” plans have been written and reviewed by public specialists. This process allowed for the identification of weaknesses, problem areas, and oversights in the standard plan development to that point.

In May 2006, the workgroup met for a third time to respond to the feedback from the field-testing process. Currently we are working on the editorial changes necessary to address the issues raised at this meeting and to put the final touches on NMP and NBS formats.

The goal is to have the formats in a “final” form around the time this newsletter goes to press. The expectation is that the standard formats will be released to those working in the program at the August 30 and August 31 Act 38 Update Trainings.

Jerry Martin
Penn State Cooperative Extension
Nutrient Management Education Program

Tim Murphy Retires

On May 31, 2006, the Nutrient Management Program said good-bye to Tim Murphy, NRCS State Conservation Engineer. While we congratulate Tim on his retirement, we are sorry to lose a key contributor to our program. Tim has represented NRCS in working with Pennsylvania's Nutrient Management Program since the passing of Act 6 in May 1993.

Tim was integral in the development of the Act 6 regulations, the Pennsylvania Nutrient Management Act Program Technical Manual, and most recently, the revision of the regulations for what is now Act 38. He participated in the development and ongoing presentation of program training courses, in particular the Nutrient Management Orientation, the ACA Evaluation Workshop, and the Soil, Hydrology and Liquid Manure Workshop. He has served on the Education Planning Workgroup over the entire history of our program. Finally, he provided technical support to all of us working in the program.

In addition, during his tenure at Pennsylvania NRCS, Tim has been involved in many other projects that have direct or indirect impact on our program. Most obvious, has been his primary role in the drafting and updating of most of the engineering standards for conservation practices that we rely on in our program. Tim provided engineering support in the development of DEP's Manure Management Manual. He also provided support and guidance to NRCS area engineers on many issues related to manure and nutrients.

Personally, I have had the privilege to work most closely with Tim in conducting the ACA Evaluation Workshop. It was here that Tim exhibited the ability that summarizes his value to Pennsylvania's Nutrient Management Program. He had the special ability to take his knowledge of the technical, engineering aspect of manure and manure management systems and effectively and practically integrate that knowledge into meeting the intent of the nutrient management regulations.

In summary, Tim's investment in Pennsylvania's Nutrient Management Program is part of the foundation that we will always be building on.

Tim, it has been a pleasure to have you on our team in this nutrient management effort, both as an engineer and a friend.

Jerry Martin
Penn State Cooperative Extension
Nutrient Management Education Program

Very Low Manure Analysis Justification

We have seen a number of very low nutrient level manure test results being used in nutrient management plans. This is primarily related to the swine industry. An example of these types of tests could be a manure test report showing 10 lbs of P₂O₅ per 1000 gallons for finishing hog manure, when the book lists an average value of 55 lbs per 1000 gallons. These low nutrient content figures lead us to question how the manure test was taken and how the manure is handled on the farm.

For those plans where these very low values are being proposed, the planner will need to validate and document the testing procedure used. Also these plans will need to provide an explanation of why the nutrient level is low. These low value tests will not be acceptable without the proper justification.

If the documented nutrient level is low due to the use of a two-stage manure storage system, the plan would need to explain that and explain how the manure from the first stage will be addressed. If the level is low because of non-agitation of the manure prior to application, the plan will need to contain that statement. In that case it will also need to describe how the solids buildup will be monitored in the storage and how it will be handled over the long-term operation of the facility and when the solids are required to be removed. A plan amendment will be submitted addressing the solids nutrient content and volume.

This process is being implemented to better understand these low-level nutrient tests by providing appropriate justification to defend these values, as well as the methodology used to monitor and address all the manure nutrients generated on the farm over the long term.

Doug Goodlander
Director of Nutrient Management Program
State Conservation Commission

Manure Storage Certification by a Professional Engineer

DEP regulations state that a farmer building a manure storage facility in Pennsylvania after January 2000 will be required to follow the appropriate standards in the Pennsylvania Technical Guide as well as the Manure Management Manual when building the facility. In addition, if the storage is to contain liquid or semi-solid manure, the farmer will need to have a Professional Engineer design or sign off on the design for the storage, as well as sign off that the facility was installed according to the appropriate standards.

There has apparently been some confusion on addressing solid manure stacking areas under this requirement. The DEP regulations require that dry manure storages be built according to the standards in the Pennsylvania Technical Guide and the Manure Management Manual, but the regulations do not require the design for these dry manure stacking pads to be done by a Professional Engineer, nor would the regulations require that the Professional Engineer sign off that the solid manure stacking facility was built according to the appropriate standards.

I understand that some farmers have been hiring Professional Engineers to design and oversee the construction of solid manure stacking pads because they thought the DEP regulations required this engineer involvement. The DEP regulations do not require farmers to have an engineer for these instances.

Doug Goodlander
Director of Nutrient Management Program
State Conservation Commission

CAFO Nutrient Management Plan Reviews

The new federal CAFO regulations call for the permit approval authority (DEP in Pennsylvania) to review nutrient management plans when reviewing CAFO permit applications. In an effort to keep from having to review these plans twice (once at the district and once at DEP), and to ensure that districts are not approving a plan that will later be turned back by DEP, I am asking that districts communicate with their DEP regional staff when reviewing these CAFO plans.

When a district receives a nutrient management plan that will be used in a CAFO permit application, the district should contact their DEP regional office and let them know of their receipt of the plan. The district will then allow the DEP regional staff to look the plan over at the same time that the district is reviewing the plan. Any issues identified by the DEP regional staff can be discussed between the district and the DEP staff, and where necessary, addressed by the planner in the review process.

It is hoped that this process will eliminate the need for DEP regional staff to re-review a nutrient management plan that has already been approved by the conservation district, while still complying with the EPA regulations requiring DEP review of the nutrient management plan, and while not adding any extra review time to the process.

Doug Goodlander
Director of Nutrient Management Program
State Conservation Commission

CECs for Individual Specialists

In an effort to make it more feasible for final individual nutrient management specialists to maintain their certification we are offering continuing education credits (CECs) for attending courses offered for commercial/public specialist certification training.

Individual specialists can receive CECs for the following trainings: Managing Manure Nutrients Workshop, Plan Writing Workshop, Stormwater Management & RUSLE Workshop, Phosphorus Index Training and the ACA Evaluation Workshop.

This again is only available for our final certified individual specialist category.

If you would like to receive CECs for any of the above courses you must pre-register for the course and indicate that you would like to receive the CECs for the course. When you attend the course you need to make sure you sign the registration sheet to receive the CECs for the course.

Michael Aucoin
Certification & Education Specialist
PDA Nutrient Management Program

Alternatives to Land Application of Manure

The Pa State Conservation Commission and the Nutrient Management Advisory Board (NMAB) recognized that the continued growth of concentrated animal operations (CAOs) in Pennsylvania is leading to on-farm, local and regional nutrient imbalance issues across Pennsylvania. This imbalance can result in compromising water quality in watersheds where not addressed properly.

The Nutrient Management Advisory Board (NMAB), as part of its Phosphorus recommendations to the Commission, had suggested that a workgroup be formed to identify and address the nutrient imbalance issue in Pennsylvania. Now that the Commission has moved into requiring Phosphorus management, it is critical that the Commission partner with the agricultural community in exploring and providing solutions to address these imbalance situations. Therefore, the NMAB formed a new committee to look into and address this nutrient imbalance issue. That committee is called the Alternative Manure Utilization and Treatment Committee.

The overall purposes of the Alternative Manure Utilization and Treatment Committee are to identify these areas of nutrient imbalances, and to provide guidance in the development of practices and programs to assist agricultural operations in these areas to address these imbalances in an environmentally sound and economically feasible manner, and to advise the Commission on these efforts. This Committee is to serve as the state's focal point for discussions relating to alternative uses and treatments of manure.

The Committee will work with the general public, the farm community, Commission staff and technical experts in this area to meet the objectives of the Committee. The Committee will make a concerted effort to coordinate their efforts with the Agricultural Renewable Energy Council and be consistent with the vision of the Agricultural By-Products Management Technology Board created by the legislature. The overall goal of the Committee will be the continual improvement of technology, research and implementation efforts in the area of alternative utilization and treatment of manure. The Committee will be expected to provide a strategy to

the full Board by the fall of 2006, outlining the areas of nutrient imbalance in Pennsylvania, as well as a listing of various practices and programs that can be used by farmers to address regional and on-farm nutrient imbalance issues.

The Committee is rooted in the Nutrient Management Advisory Board, but also includes additional members in order to obtain the level of expertise needed to thoroughly address this topic. Presently there are 17 members on this committee from all aspects of the agricultural community. The committee has met 3 times and is gathering information to develop a strategy for Pennsylvania. The Commission has recently allocated funding to supply short-term (one-year) part-time technical support for this committee to identify the regions of nutrient imbalances throughout Pennsylvania and to assist the committee in the development of the strategy. The committee has called on a number of partners to provide information and will be working hard to comply with a fast paced time schedule.

If you are working with or have knowledge of any operators looking at alternative uses of the manure their operations generate, feel free to have them contact Michael Walker (570-433-2640, ext. 221) to discuss their options.

Mike Walker
Nutrient Management Program Coordinator
State Conservation Commission

Odor Management Plan Update

Act 38 requires that an agricultural operation that is either a Concentrated Animal Operation (CAO) or a Concentrated Animal Feeding Operation (CAFO) **AND** is building a new or expanding an existing animal housing facility or a manure management facility in Pennsylvania will be required to submit an Odor Management Plan (OMP). This requirement is to go into effect 90 days following the effective date of the Commission's regulations developed to address odor management.

Act 38 requires that the State Conservation Commission, in conjunction with the Nutrient Management Advisory Board (NMAB), develop and administer a regulatory program requiring odor management plans. Currently, we are in the process of drafting concepts to address regulating odor management planning and implementation. Once

this concepts phase is completed and approved, then the actual drafting of regulation language will begin.

To facilitate this process, we have set up a technical advisory workgroup from Penn State, an interagency staff workgroup including representatives from DEP, Ombudsman, NRCS, PDA, PSU and SCC, as well as an Odor Management Committee from the NMAB.

Also, to get a better understanding of how we might be able to develop the most effective and practical odor management program, I have been meeting with and making presentations to various agriculture related as well as environmental related groups and individuals. This effort has raised numerous concerns and suggestions that we are currently working on.

The State Conservation Commission has approved a target date of December 2007 for publication of the final odor management regulation.

Karl Dymond
Air Quality Program Specialist
State Conservation Commission

Statewide Cover Crop Meetings

The Keystone Chapter – SWCS, in cooperation with the State Conservation Commission and the USDA – Natural Resources Conservation Service, is sponsoring a series of cover crop meeting across the state.

The meetings are primarily directed toward agricultural producers and conservation professionals.

Speakers from state conservation agencies, NRCS and Penn State and Ohio State Cooperative Extension, along with an experienced farmer panel, will present various topics of interest surrounding the cover crop issue.

The meetings will run from 9 AM to 3:30 PM according to the following schedule: Tuesday, August 1, 2006 – Holiday Inn, Clarion; Wednesday, August 2, 2006 – Country Cupboard, Lewisburg; Thursday, August 3, 2006 – Holiday Inn, Grantville. There will be a \$20 charge per participant, which includes lunch and all meeting materials. Pre-registration is required.

For more information contact Jamie Ulrich (814-946-7315, x235; aulrich@state.pa.us) or Mark Goodson (717-237-2146; Mark.Goodson@pa.usda.gov). Additional information is also available from your local NRCS, Conservation District or Cooperative Extension office.

Jamie Ulrich
Nutrient Management Program Coordinator
State Conservation Commission

Commercial Manure Hauler and Broker Certification Update

In 2004, Governor Rendell signed into law the Commercial Manure Hauler and Broker Certification Act or Act 49. Under the Act, any person commercially engaged in the transport, land-application or brokering of manure in Pennsylvania on behalf of an agricultural operation must obtain a certificate issued by the Department of Agriculture in order to continue providing their services. The law states that no commercial hauler or broker may transport or land-apply manure on behalf of an agricultural operation, regardless of where the manure is generated, unless the individual is certified.

In addition, all commercial haulers and brokers who apply manure that is generated by a CAO, CAFO or volunteer operation must apply the manure in accordance of the provisions of an approved nutrient management plan or nutrient balance sheet. Commercial haulers and brokers must also maintain records of all manure they broker, transport or land-apply.

The Pennsylvania Department of Agriculture (PDA) is in the process of refining regulations, which were subject to public comment earlier this year. The final regulations are expected to be released later this year. Since the regulations were not finalized prior to the Act's certification deadline of February 26, 2006, the Department of Agriculture developed an 'interim' training and examination program under a *Statement of Policy* issued in January 2006 to facilitate certification of individuals required to obtain certification under the Commercial Manure Hauler and Broker Certification Act.

The 'interim' certification was established to 'temporarily' certify commercial manure haulers and brokers until the Department finalizes regulations for

the program. Once the Act 49 regulations are finalized all individuals certified through the interim program will receive official certification without being required to attend additional training sessions.

The Department held a series of classroom trainings as part of the 'interim' certification program, in seven locations across the state in February, March and May 2006 and has issued 700 'interim' certificates to persons who successfully completed the training in two categories - Commercial Manure Haulers (544 persons) and Commercial Manure Brokers (156 persons). Individuals participating and completing a training and passing an examination developed by the Department were issued an 'interim' certificate that allows them to continue functioning as a commercial manure hauler or broker.

The Department has not scheduled any further certification training for commercial manure haulers or brokers at this time. However, any person interested in certification under the program should contact Michael Aucoin, Certification and Education Specialist (717-772-5218 or maucoin@state.pa.us). Further information concerning the Commercial Manure Hauler and Broker Certification program can be found on the Department's website at <http://www.agriculture.state.pa.us> under *Manure Hauler and Broker Program*.

Johan Berger
Section Chief
PDA Nutrient Management Program

Robb Meinen
Penn State Cooperative Extension
Manure Haulers Education Program

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.

ACA Evaluation Workshop

July 18 & 19, 2006

Berks County Ag Center
Reading, Berks County

9:00 am – 4:30 pm (7/18)
8:00 am – 12:30 pm (7/19)

All commercial and public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. 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 38 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 the first day. Must bring your own packed lunch on the first day.

ACA Evaluation Workshop

August 7 & 8, 2006

Berks County Ag Center
Reading, Berks County

9:00 am – 4:30 pm (8/7)
8:00 am – 12:30 pm (8/8)

All commercial and public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. 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 38 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 the first day. Must bring your own packed lunch on the first day.

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

9:00 am - 12:00 noon

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

September 5 & 6, 2006

Room B, Farm Show Complex
Cameron Street, Harrisburg

9:00 am - 4:00 pm (9/5)
9:00 am - 12:00 noon (9/6)

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

September 19 & 20, 2006

Centre County Solid Waste Authority
State College

9:00 am - 4:00 pm (9/19)
8:00 am - 3:30 pm (9/20)

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.

ACA Evaluation Workshop

October 2 & 3, 2006

Berks County Ag Center
Reading, Berks County

9:00 am - 4:30 pm (10/2)
8:00 am - 12:30 pm (10/3)

All commercial and public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. 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 38 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 the first day. Must bring your own packed lunch on the first day.

Stormwater Management & RUSLE Workshop

October 17 & 18, 2006

Myers Farm

9:00 am – 3:30 pm (10/17)

Spring Mills, Centre County

8:30 am – 3:00 pm (10/18)

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

October 19, 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.

ACA Evaluation Workshop

October 24 & 25, 2006

Berks County Ag Center

9:00 am – 4:30 pm (10/24)

Reading, Berks County

8:00 am – 12:30 pm (10/25)

All commercial and public nutrient management specialists must fully complete this mandatory training course in order to obtain provisional certification. 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 38 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 the first day. Must bring your own packed lunch on the first day.

Plan Writing Workshop

October 30 & 31, 2006

Centre County Solid Waste Authority

9:00 am - 4:00 pm (10/30)

State College

8:00 am – 4:00 pm (10/31)

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.

Plan Review Workshop

November 14, 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

December 6, 2006

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

9:00 am - 12:00 noon

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.**

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

_____ ACA Evaluation Workshop – July 18-19, 2006

_____ ACA Evaluation Workshop – August 7-8, 2006

_____ Plan Review Workshop – August 22, 2006

_____ Certification Examination, PDA – August 29, 2006

_____ Certification Examination, Centre County – August 29, 2006

_____ Act 38 Update Training, Indiana County – August 30, 2006

_____ Act 38 Update Training, Dauphin County – August 31, 2006

_____ Nutrient Management Orientation – September 5-6, 2006

_____ Managing Manure Nutrients Workshop – September 19-20, 2006

_____ ACA Evaluation Workshop – October 2-3, 2006

_____ Stormwater Management & RUSLE Workshop – October 17-18, 2006

_____ Phosphorus Index Training – October 19, 2006

_____ ACA Evaluation Workshop – October 24-25, 2006

_____ Plan Writing Workshop – October 30-31, 2006

_____ Plan Review Workshop – November 14, 2006

_____ Certification Examination, PDA – December 6, 2006

_____ Certification Examination, Centre County – December 6, 2006

* 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