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August 23, 2011

Jeff Prier
Iowa Department of Natural Resources
Field Office 3
1900 North Grand Avenue
Spencer, IA 51301

Dear Mr. Prier:

Per cooperative agreement number ESD7427JPRIER11011, between the Iowa Department of Natural Resources and Iowa State University Extension, attached is a copy of the 2011 Manure Applicator Certification final project report. The project report covers the period from July 1, 2010 to June 30, 2011. A copy of the final report will also be made available electronically at: <http://www.agronext.iastate.edu/immag/mac.html>.

Also enclosed is copy of each of the training dvds per our contract requirements and a copy of a program CD with program modules and handouts.

If you have any questions regarding this report please feel free to contact me. I look forward to a continued relationship on this project.

Sincerely,



John D. Lawrence
Associate Dean, Extension Programs and Outreach
Director, Agriculture & Natural Resources Extension

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Manure Applicator Certification Program
July 1, 2010 to June 30, 2011
Agreement Number ESD7427JPRIER11011
Final Report

Introduction

In 1998, the Iowa Legislature passed HF 2494. This bill required certification of commercial manure applicators and confinement site manure applicators with operations of a designated size. Legislative changes (HF 644) again in 2003 required rule changes for the 2004 program. These changes primarily dealt with the administrative changes to the commercial manure applicator program. The new law required manure application businesses to hold business licenses and allowed fees to be set for businesses, managers and employees. The purpose of this project, entered into by the Iowa Department of Natural Resources (IDNR) and Iowa State University Extension (ISUE) was to develop manure certification training and testing materials and to conduct certification workshops for commercial manure applicators and confinement site manure applicators. This annual report covers year 14 of the certification program.

Training Material Development

Confinement Site Manure Applicator Program

Training materials for the confinement site programs were developed into individual modules. The goal of the module concept was that the material could be used again in future programs with minimal time used in development of the presentation of the materials but instead, time focused on updating the subject matter of each module for future use. The modules were identified from email discussion and idea submitted by Extension Field Specialists and input from the Manure Applicator Certification Advisory Committee. An Extension campus and/or field specialist or IDNR staff member then develops and presents each module. For some modules, other speakers are identified and asked to participate in the program. The materials are developed into a PowerPoint presentation or a video segment and then burned onto a CD for use at the annual workshops. Each module may be modified at the local level by Extension Field Specialists to adapt for regional or county use to meet certain manure application practices, crop, soils, or topography requirements.

A list of modules by year, from 2008-2011 is presented in Table 1.

Commercial Manure Applicator Program

Materials developed for the 2011 Commercial Manure Applicator program were prepared via email by Extension Field Specialists, IDNR staff and input from the Manure Applicator Certification Advisory Committee. The program materials were delivered by pre-recorded video segments at the annual coordinated showing of the Manure Applicator Certification program which was held on January 6, 2011.

A list of modules from 2008-2011, and time allocated is presented in Table 1 (a complete list of modules by year from 2001-2011 is available upon request).

Dry Manure Applicator Program

This program is a subset of the commercial manure applicator and confinement site applicator program. The program is designed to meet the training requirements of both types of applicators, but focuses more on dry manure issues and handling. A list of modules for 2011 is included in Table 1.

Table 1. Certification modules developed and presented at training meetings by program and year.

Modules developed prior to 2008 are available upon request.		
Year	Confinement Site Manure Applicator Program	Commercial Manure Applicator Program
2008	DNR Land Application Rules, Separation Distances and Manure Management Plans 25 Minutes	DNR Land Application Rules, Separation Distances, Spill Training 30 Minutes
	Emergency Mortality Management 27 minutes (Glanville DVD)	DOT Regulations/Weight Restrictions 30 minutes Chris Boswell
	Confinement Site Investigation Scenarios 50 minutes	Review of Land Application Issues from past 10 years 20 minutes Karen Grimes
		DNR Case Studies on Manure Spills and Spill Response 25 minutes Ted Peterson
		Injector effects on soil, odor, residue and manure 35 minutes, (Hanna Video)
2009	Valuing, Pricing and Selling Manure 60 minutes	DNR Land Application Rules, Separation Distances and Manure Management Plans 40 minutes
	Hydrogen Sulfide Safety During Deep-Pit Pump out 25 min (Swestka/Burns DVD)	Economics of Hauling Manure (Leibold video) 33 minutes
	DNR Land Application Rules, Separation Distances and Manure Management Plans 35 min	Hydrogen Sulfide Safety During Deep-Pit Pump out 25 minutes (Swestka/Burns video)
		Road Safety and Personal Protective Gear 60 minutes
		Mole Toolbar (video) 15 minutes
2010	Review of Rules, Land Application Separation Distances, MMP Requirements, Winter Application, Stockpiling Regulations, Paperwork, Fees and Recordkeeping Requirements 60 minutes	DNR Land Application Rules, Separation Distances, Winter Application Rules, Water Quality Impacts, Spill Response, Paperwork, Fees and Recordkeeping Requirements. 60 minutes
	How to Interpret your Manure Analysis 30 Min	
	Pit Explosions, Fires and Foaming 15 Min	Commercial Application of Manure: Case Studies and Tips for dealing with Liability Issues. 35 minutes
	Liquid Dairy Case Study 15 minutes	Drag Hose/Rupture Video 6 minutes
		Infiltration of Manure, Movement to Tiles and Ways to Minimize Risk of Rapid Export from tile 40 minutes
		Safety and Spill Response Trailer Video 10 minutes
		Pump Safety Video 13 min
		Q and A Panel Discussion 20 Min
	Dry Manure Program	
	Review of Rules, Land Application Separation Distances, MMP Requirements, Winter Application Rules, Paperwork, Fees and Recordkeeping Requirements 60 Min.	

	Stockpiling Regulations 40 Min	
	Transport of N and P to Subsurface Drain Water under Layer Hen Manure-Applied Field Plots 60 min	
	Q and A 20 Min	
2011	Review of Rules, Land Application Separation Distances, MMP Requirements, Winter Application, Stockpiling Regulations, Paperwork, Fees and Recordkeeping Requirements 44 min (Prier)	DNR Land Application Rules, Separation Distances, Winter Application Rules, Paperwork, Fees and Recordkeeping Requirements. 45 minutes (Prier)
	Frozen Ground and Winter Application Rules 17 min (Prier)	Manure Nitrogen Availability and Supply 49 min (Sawyer)
	Manure Nitrogen Availability and Supply 49 min	Water Quality Impacts and Spill Response 25 min (Wiklund)
	Video segment of Safety Pumping from Deep Pits 15 min (Arora and Harmon)	Frozen Ground and Winter Application Rules 17 min (Prier)
		Update on Foaming Pits Research 28 min (Schmidt)
		Video segment of Safety Pumping from Deep pits 15 min (Arora and Harmon)
		Frequently Asked Questions 15 min (Rieck-Hinz)
	Dry Manure Program	
	Review of Rules, Land Application Separation Distances, MMP Requirements, Winter Application Rules, Paperwork, Fees and Recordkeeping Requirements 42 Min. (Rieck-Hinz)	
	Frozen Ground Winter Application Rules 17 min (Prier)	
	Manure Nitrogen Availability and Supply 49 min (Sawyer)	
	Stockpiling Regulations 25 min (Rieck-Hinz)	
	Water Quality Impacts and Spill Response 25 min (Wiklund)	
	Frequently Asked Question 15 min (Rieck-Hinz)	

Supporting Training Materials

No new handout materials were developed for the FY11 program. The usual copies of DNR 113, DNR 115 and DNR 116 were distributed at workshops. ISU is still awaiting the development of handout materials as related to stockpiling requirements.

Certification Workshops

Confinement Site Workshops

Training workshops for the 2011 Confinement Site Manure Applicator Certification program began in January 2011 and continued through February 2011. There were 71 training workshops in 63 counties. In addition to the workshops, confinement site applicators could also meet training requirements by watching a two-hour videotape at their local County Extension office.

ISU Extension staff has reported 1,280 confinement site applicators attended the certification workshops, while ISUE has collected 1,236 confinement site application evaluations (by the date of this report). The 2011 Confinement Site program was presented by 14 Field Specialists including: 4 Agricultural and Bio-system Engineers, 9 Field Agronomists, and 3 Campus Specialists.

There was also a confinement site certification workshop at the 2011 Iowa Pork Congress.

Commercial Applicator Workshops

The 2011 Commercial Manure Applicator program was delivered via coordinated showing on January 6, 2011. This showing was presented in 75 Iowa Counties Extension offices, one Nebraska County Extension office, and two Wisconsin County offices and one Minnesota office. A total of 77 applicators attended one of these out-of-state meetings.

The ISU Extension staff has reported 1,256 commercial applicators attended the certification meetings, while ISUE has collected 1,245 commercial applicators evaluations.

A commercial manure applicator training session was also offered at the Agribusiness Expo on February 9th at the State Fairgrounds in Des Moines.

A coordinated statewide “reshow” of the commercial manure applicator program was offered on August 25, 2010. This was not a live event, but an event where county offices held a “reshow” of the training DVD on a coordinated date and time. This event was held in 34 county Extension offices. The goal in offering this reshow was to reduce the number of times the county staff offers the commercial program in the fall. We know that most commercial applicators will wait until immediately prior to fall application season starts to get new employees certified, so by offering this coordinated event, it helps us to maximize training and staff time. Although the August “reshow” was the DVD program from the January event, it technically occurs in the new fiscal year and was included in this report. This event was publicized through press releases and a direct mail postcard to all commercial applicator businesses.

Dry Manure Workshops for Commercial and Confinement Site Applicators

In February, seven dry manure applicator workshops were scheduled in the state of Iowa. Due to the weather, the Thompson location one was canceled due a blizzard. It was rescheduled to a later date, but that workshop was also canceled due to an ice storm. It should be noted that one additional site was added this year, Orange City, in an attempt to meet need for cattle producers who are primarily raising cattle in confinements. As noted by attendance at the Orange City location, there was a definite need for this meeting location.

Date	Location	Attendance
February 2, 2011	Thompson	Canceled due to weather
February 10, 2011	Greenfield	CFS; 31 Comm; 41 total
February 16, 2011	Orange City	9 CFS; 46 Comm; 55 total
February 17, 2011	Ellsworth	6 CFS; 15 Comm; 21 total
February 18, 2011	Clarion	13 CFS; 55 Comm; 68 total
February 22, 2011	Washington	16 CFS; 21 Comm; 37 total
February 24, 2011	Storm Lake	9 CFS; 23 Comm; 3 Guests; 35 total

These workshops provided the necessary three hours of training for those who were commercial applicators. The confinement applicators who attended these workshops benefited from the extra hour of information. The workshop topics discussed the current regulatory requirements for manure applicators, on-going changes to stockpiling rules and enforcement.

Certification Workshop Evaluation

An evaluation form was created for the Commercial Manure Applicators pertaining to the material given during the certification process. At the end of each workshop and at the end of each video, the applicators were asked to complete an evaluation on the information presented, overall evaluation of the program, and then questions for managers/owners as a result of this year's program, and their business practices. From the 2011 Commercial Evaluations-Manager/Owners

As a result of this year's program:

Do you wait to apply manure with high ammonium N content when soils temps are 50 degrees or cooler?

- 88% said they do wait to apply manure when its 50 degrees or cooler.
- 12% said they do not wait to apply manure when its 50 degrees or cooler.

Do you change application dates based on what the customer wants?

- 95% reported they did change the application dates based on what the customer wanted.
- 5% said they did not change the application dates.

Do you have other practices that help manage manure nitrogen?

- 94% stated they had other practices in place. Then they stated their practices.
- 6% said they did not have any other practices in place.

Would it be helpful to have example forms or standardized forms available to you for your recordkeeping?

- 61% said they would like to have standardized forms
- 39% said they did not need them.

Has your business grown in the past 2 years?

- 34% said yes, they had grown their business.
- 66% said they did not increase their business.
- 1 reported they were a new business

The managers/owners also reported they were hauling more gallons/tons as well

- 51% said they were hauling more
- 49% said they were not hauling more

Have you purchased additional equipment?

- 50% said yes
- 50% said no

The following questions were about the use of Instinct in manure application. How many acres of manure applied contained Instinct?

- 183 reported various responses ranging from 11 acres to 1,000,000 acres to all.
- 1062 did not respond

How many gallons of manure applied contained Instinct?

- 99 reported various responses ranging from 5 gallons to 18,000,000 gallons
- 1146 did not report an amount

2011 Confinement Site Program Evaluation forms were created with new questions for the applicators pertaining to the material given during the certification process. At the end of each workshop and at the end of each video, the applicators were asked to complete an evaluation on the information presented, overall evaluation of the program, and any changes in their manure management practices. The applicators were also asked if they had or would be willing to adopt the new practices. Some of the practices evaluated in 2011 Confinement site program were as follows:

Do you have a better understanding of the differences between availability and supply of manure Nitrogen?

- 91% stated they did have a better understanding
- 7% stated they did not have a better understanding

As a result of today's training:

Would you consider delaying application of liquid swine manure to late fall to minimize potential Nitrogen loss risk?

- 18% plan to adopt
- 63% adopted prior
- 4% choose not adopt
- 15% does not apply
- 4% No Response

Will you employ safety practices when agitating and pumping manure from a foaming deep-pit?

- 24% plan to adopt
- 58% adopted prior
- 1% chose not to adopt
- 17% does not apply
- 3% No Response

As a result of last year's training:

Are you better able to understand information in a manure nutrient lab report (manure test)?

- 93% yes
- 6% no
- 2% I need more information
- 17% No response

Do you use your manure report to calculate manure application rates?

- 89% yes
- 10% no
- 1% I need more information
- 17% No response

For owner's/managers:

Are you including Instinct in manure application? If so, please answer the following:

Number of acres applied with manure containing Instinct

- 129 reported various responses ranging from no acres to 2,500 acres to all.
- 1015 No response

Number of gallons of manure applied containing Instinct

- 36 reported various responses from no gallons to 2,600,000 gallons
- 1200 No response

What kind of Information do you need to be more efficiently make manure nitrogen management decisions?

- 60 Various responses

Complete results of program surveys can be found at:

<http://www.agronext.iastate.edu/immag/maceval.html>. These results are continuously updated as we receive evaluations from County Extension offices. Evaluations from previous years are also available at this site.

Advisory Committee

The 2011 MAC advisory committee met on June 22, 2010, at the ISU Field Extension Education Lab. Members in attendance included: Tom Miller, Shawn Shouse, Willy Klein, Kris Kohl, Russ Euken, John Sawyer, John Lawrence, Kapil Arora, Greg Brenneman, Jerry Chizek, Rachel Klein, and Angie Rieck-Hinz from ISU; Tyler Bettin from IPPA; Tony Sents and Joan O'Brien from ICNAA; Gretta Irwin from ITF; Jeff Prier, Karen Grimes and Gene Tinker from DNR. The committee reviewed the 2010 program year, discussed program ideas and training materials for the 2011 program year, discussed the implementation of a county reshew policy and

Promotional Materials

Promotional materials used in the 2011 Manure Applicator Certification programs were similar to that of previous years. A postcard was developed and distributed announcing the commercial applicator reshew in August 2010. A postcard was developed for the January 2011 Commercial program and a brochure was developed for the Confinement

Site program to be used as an informational and recruitment tool. Copies of the postcard and brochure were mailed to all currently certified commercial manure applicators and confinement site applicators in December 2010.

Again this year, postcard templates were designed for use by the County Extension offices to remind the Confinement Site Applicators of the upcoming workshops in their area. A set of instructions on how to use the templates was also posted to the MAC "For Staff" Web page. Copies of all brochures and postcards used for recruitment purposes can be found on the enclosed CD titled "ISUE 2011 MAC Program Applicator Training Materials".

A total of six press releases were prepared and used by County Extension offices for local media. A copy of those press releases can be found in Appendix 1. Workshop dates were maintained on the MAC section of the IMMAG web site (<http://www.agronext.iastate.edu/immag/mac.html>) and were also linked on the Iowa Pork Industry Center's web page <http://www.ipic.iastate.edu/pastevents11.html>. A list of workshop dates was distributed to attendees at the Iowa Pork Congress in January 2011. In addition, an article was prepared and distributed through the November 2010 *Iowa Pork Producer Magazine* found at <http://www.iowapork.org/LinkClick.aspx?fileticket=JKwB6CtB6qM%3d&tabid=702>. Another article was also prepared for the Iowa Commercial Nutrient Applicators Association newsletter. In addition, livestock commodity groups were provided with information regarding training opportunities that they used in their monthly email newsletters to their members.

All of the public certification materials have been distributed electronically through the IMMAG site. The Manure Applicator Certification Program button on the IMMAG site links users to a site solely devoted to the Certification Program (<http://www.agronext.iastate.edu/immag/mac.html>). The site contains a description of who needs to be certified, how to get certified and a list of questions and answers most commonly received about the program. The site also has a "staff only" link for ISU Extension employees to download program-planning materials. This site serves as the primary location for MAC information in the state of Iowa.

Reporting Requirements

This contract requires quarterly reports and a final project report. This document serves as the final project report. The quarterly reports were submitted to the Iowa Department of Natural Resources point of contact, Jeff Prier, via email on October 25, 2010, January 28, 2011; April 18, 2011 and July 15, 2011.

Partnerships

For FY11 the normal partnerships with IDNR, members of ICNAA, ITF, IPPA, ICA, ISDA and IPA were maintained. We also worked with the University of Minnesota to bring in needed expertise regarding foaming pits and to provide a training site in Minnesota to accommodate Minnesota manure applicators who need to meet Iowa MAC requirements.

Future Needs

Fiscal year 2011 continues to show an increase in the number of both confinement site and commercial manure applicators. This is reflected by attendance at our workshops, video showings and by the number of applicators who have met training requirements by the end of the fiscal year. This increase in numbers may warrant exploring new or additional means of providing certification training. Other future needs may include offering more dry manure certification opportunities that focus on confined bedded beef operations. These types of operations are gaining in popularity in Iowa and due to size of operation, will require owners/manager to meet manure applicator certification requirements.

From both written comments and verbal comments at workshops, there is one clear need for information. Many producers want information on stockpiling regulations. They indicate they want something to take home and read, not just to listen to a presentation on stockpiling. It would be beneficial to manure applicators and to ISU to have handout material from DNR regarding the various stockpiling regulations.

Additional items to consider include developing a policy for training requirements. It is likely that other entities will continue to want to provide opportunities for training. It is not ISU's decision on if or how this happens, but DNR should consider developing a policy that outlines the expectations and requirements of this program.

Budget

A copy of the budget expenditures as of June 30, 2011, is provided via the ISU Office of Sponsored Programs.

**Appendix 1.
Press Releases**

Statewide Training Session for Commercial Manure Applicators Scheduled for Aug. 25

<http://www.extension.iastate.edu/news/2010/jul/161402.htm>

Annual Confinement Site Manure Applicator Workshops Scheduled for 2011

<http://www.extension.iastate.edu/news/2010/dec/161302.htm>

2011 Confinement Site Manure Applicator Training Scheduled in -- County

<http://www.extension.iastate.edu/news/forstaff/2010/nov/161601.htm>

Commercial Manure Applicator Training Scheduled for Jan. 6, 2011

<http://www.extension.iastate.edu/news/2010/dec/161302.htm>

Commercial Manure Applicator Training Scheduled for --County

<http://www.extension.iastate.edu/news/forstaff/2010/nov/161602.htm>

Dry Manure Applicator Certification Offered

<http://www.extension.iastate.edu/news/2011/jan/121402.htm>

Statewide Training Session for Commercial Manure Applicators Scheduled for Aug. 25

7/14/2010

AMES, Iowa -- Iowa State University (ISU) Extension in cooperation with the Iowa Department of Natural Resources (DNR) will conduct a statewide training for commercial manure applicators on Wednesday, Aug. 25, from 9 a.m. to noon. This training will not be a live show, but will be the same program that was offered for training in January 2010.

This is an opportunity for commercial manure applicators who have not fulfilled their 2010 training to do so before the busy fall manure application season. Commercial manure applicators wishing to become certified for the first time also may attend. The workshop will provide the required three hours of annual training. Applicators who have already attended training in 2010 do not need to attend, but are reminded to submit their forms and fees prior to any manure hauling or land application.

Iowa law requires commercial manure applicators to attend three hours of annual training and to submit the appropriate forms and fees to the Iowa Department of Natural Resources (DNR) to meet certification requirements. Applicators may apply manure prior to receiving their certification card in the mail, but commercial applicators should carry a copy of the signed paperwork with them until they receive their certification card to prove they have attended their annual training. Commercial manure applicator licenses will expire on March 1, 2011, regardless of when training was attended in 2010.

There is no fee for the training workshop, but applicators must register with the county extension office where they plan to attend by Wednesday, Aug. 18. Applicators should bring their driver's license or a copy of their certification card. The counties offering this training can be found at www.agronext.iastate.edu/immag/certification/2010macreshow.pdf

If you have questions about the statewide re-show of the 2010 satellite downlink program, contact your [ISU Extension county office](#) or check on the Web at <http://extension.agron.iastate.edu/immag/mac.html>.

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Willy Klein, Extension Communications and External Relations, 515-294-0662, wklein@iastate.edu

Confinement Site Manure Applicator Workshops Scheduled for 2011

12/14/2010

AMES, Iowa -- Confinement site manure applicators and anyone interested in learning about manure issues should plan to attend a two-hour workshop offered by Iowa State University (ISU) Extension in January or February 2011. These workshops are offered in cooperation with the Iowa Department of Natural Resources (DNR). There is no fee to attend the workshops, but applicators will need to pay certification fees to complete certification requirements.

"Iowa law requires confinement site manure applicators to attend two hours of continuing education each year of their three-year certification period, or take and pass an exam once every three years," said Angela Rieck-Hinz, ISU Extension program specialist and coordinator of the manure applicator certification program.

A total of 72 confinement site manure applicator workshops will be held in 63 Iowa counties. In addition, a series of seven dry/solid manure certification meetings will be held in February. [ISU Extension county offices](#) have a complete list of workshop dates and locations, or view a list at www.agronext.iastate.edu/immag/certification/11confinementsitebrochure.pdf

Workshop participants will learn about land application rules, separation distances for land application of manure, new rules regarding winter application of manure on snow-covered and frozen ground and manure nitrogen management issues. In addition, a video highlighting safety practices from pumping out deep-pits will be shared.

The workshop serves as initial certification for those applicators who are not currently certified, recertification for those renewing licenses and continuing education for those applicators in their second or third year of their license. If a confinement livestock operation has more than 500 animal units, the operator must be certified to apply manure unless the manure is applied by a commercial manure applicator. The certification fee is \$100 for a three-year certificate. Confinement site applicators also must pay the \$25 annual education fee. All fees are submitted to Iowa DNR.

Due to uniform certification deadlines, applicators are encouraged to attend workshops prior to March 1 to avoid being assessed a late fee of \$12.50. Those unable to attend one of the workshops need to schedule a time with their ISU Extension county office to watch the training DVD. Many extension offices will no longer accept walk-in appointments to watch these DVDs due to scheduling conflicts. Instead, county offices offer scheduled dates and times to provide this training.

Beginning March 1, applicators unable to attend training during one of the scheduled reshow dates at a county extension office will be charged a \$10 fee to view the training at their convenience. There will not be a fee charged for scheduled training dates and live workshops. If attending the workshops or watching the two-hour training DVD is not convenient, confinement site manure applicators may contact their local DNR field office to schedule an appointment to take the certification exam to meet certification requirements.

Contact an [ISU Extension county office](#) for more information about the Manure Applicator Certification Program or visit www.agronext.iastate.edu/immag/mac.html.

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2011 Confinement Site Manure Applicator Training Scheduled in _____ County

11/16/2010

Confinement site manure applicators should plan to attend a two-hour workshop offered by Iowa State University (ISU) Extension and the Iowa Department of Natural Resources in January or February 2011 to maintain manure applicator certification requirements. The _____ (county) _____ workshop will be offered on _____ (date) _____ at _____ (time) _____ in _____ (location) _____.

"Iowa law requires confinement site manure applicators to obtain two hours of continuing education each year of their three-year certification period, or take and pass the exam once every three years," said Angela Rieck-Hinz, ISU Extension program specialist and coordinator of the manure applicator certification program. "If applicators fail to get the two hours of continuing education each year, they will be required to pass a written exam to be eligible to recertify."

Workshop participants will learn about land application rules, separation distances and winter application rules. In addition, manure nitrogen will be a focus of the program as well as a safety update for pumping manure from foaming deep pits. The workshop serves as initial certification for those applicators that are not currently certified, recertification for those renewing licenses and as continuing education for those applicators in their second or third year of their license.

"Even crop and livestock producers that do not need certification will find the workshop to be an excellent way to stay on top of manure regulatory requirements and manure nitrogen issues," Rieck-Hinz said. "Producers who are receiving manure from confinement facilities with manure management plans will need to meet certification requirements if they are handling, transporting or applying manure from those facilities."

Operators must be certified to handle, transport and apply manure if the confinement livestock operation has more than a 500 animal unit capacity, unless the manure is applied by a commercial manure applicator. The certification fee is \$100 for a three-year certificate. This fee is paid when applicators initially get certified and then every three years when they re-certify to apply manure. Confinement site applicators are also required to pay an annual education fee of \$25. All fees and application forms must be sent to the Iowa Department of Natural Resources to complete certification requirements.

Beginning March 1, 2011, ISU Extension will be charging a \$10 fee to applicators that choose to view the certification materials on a non-scheduled reshow day at the county office. For this reason, all applicators are encouraged to attend the workshops or to plan to view training materials on the scheduled reshow date at their local county extension office. This fee will not apply to workshops or scheduled reshow dates. Please contact your county extension office to determine which days are scheduled for the manure applicator certification programs.

Applicators are encouraged to attend workshops prior to March 1, 2011, to meet certification deadlines and avoid being assessed a \$12.50 late fee for re-certification.

If you have questions about meeting dates and locations, or if you need to schedule an appointment to attend training, contact the _____ County Extension Office at _____ (phone) _____ or visit <http://www.agronext.iastate.edu/immag/mac.html> to see the 2011 workshop schedule.

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Commercial Manure Applicator Training Scheduled for Jan. 6, 2011

12/14/2010

AMES, Iowa -- Commercial manure applicators can attend three hours of training on Thursday, Jan. 6, 2011, to meet annual commercial manure applicator certification requirements.

Iowa State University (ISU) Extension and the Iowa Department of Natural Resources (DNR) will conduct Commercial Manure Applicator training from 9 a.m. to noon at 75 locations in Iowa, and four locations in surrounding states. Registration begins at 8:30 a.m. There is no fee for the workshop but applicators must register by Dec. 30 with the [ISU Extension county office](#) where they plan to attend. A complete list of county extension offices offering this workshop can be found at www.agronext.iastate.edu/immag/certification/11macprogrampostcard.pdf

Commercial manure applicators wishing to recertify and those wanting to certify for the first time should attend. The workshop will provide the required three hours of annual training and will cover applicator rules, manure application on snow-covered and frozen ground, manure nitrogen management update and video on foaming pits and a review of case studies.

All currently certified commercial manure applicator licenses will expire on March 1, 2011. Those wanting to renew must complete training requirements and submit forms and fees to the DNR prior to March 1 to avoid paying late fees.

Applicators unable to attend the Jan. 6 program must schedule a time with their ISU Extension county office to watch the training DVD. Due to scheduling conflicts, many extension offices will no longer accept walk-in appointments to watch these DVDs. Instead county offices offer scheduled dates and times to provide this training.

Beginning March 1, applicators unable to attend training during one of the scheduled reshow dates at a county extension office, will be charged a \$10 fee to view the training at their convenience. There will not be a fee charged for scheduled training dates and live workshops. If attending the workshops or watching the three-hour DVD is not convenient, commercial applicators may contact their local DNR field office to schedule an appointment to take the certification exam to meet certification requirements.

In addition to the commercial manure applicator training offered on Jan. 6, ISU Extension also will offer seven dry/solid manure workshops for commercial manure applicators in February 2011. Information regarding these workshops and locations is also contained in the link to the brochure listed above.

Applicators with questions about the commercial manure applicator certification program should contact their [ISU Extension county office](#) or visit <http://www.agronext.iastate.edu/immag/mac.html>.

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Commercial Manure Applicator Training Scheduled for _____ County

11/16/2010

Commercial manure applicators should plan to attend the Commercial Manure Applicator training program scheduled for Thursday, Jan. 6, 2011, from 9 a.m. to noon. Iowa State University (ISU) Extension and the Iowa Department of Natural Resources (DNR) will conduct the required three hour training workshop at that time. There is no fee to attend the workshop, but commercial applicators must register by Dec. 30 by contacting the _____ County ISU Extension Office at _____(phone number).

Commercial manure applicators wishing to recertify and those wanting to certify for the first time should attend. The workshop will provide the required three hours of annual training and will cover applicator rules, manure application on snow-covered and frozen ground, safety factors for pumping from foaming deep pits and an update on foaming pits.

All currently certified commercial manure applicator licenses will expire on March 1, 2011. Commercial applicators can attend training throughout the year, but if they were previously certified, they should plan to attend training and submit the forms and fees prior to March 1 to avoid paying the late fees. Certification fees for commercial manure applicators have not changed for 2011, however, beginning March 1, 2011, ISU Extension will be charging a \$10 fee to applicators who choose to view the certification materials on a non-scheduled reshow day at the county office. For this reason, all applicators are encouraged to attend the workshops or to plan to view training materials on the scheduled reshow date at their local county extension office. This fee will not apply to workshops or scheduled reshow dates. Please contact your county extension office to determine which days are scheduled for the manure applicator certification programs. Due to scheduling conflicts, many ISU extension offices will no longer accept walk-in appointments to watch these tapes.

If attending the Jan. 6 commercial manure applicator program or watching the three-hour DVD is not convenient, commercial applicators may contact their local DNR field office to schedule an appointment to take the certification exam to meet certification requirements.

If you have questions about the commercial applicator satellite downlink contact the _____ County Extension Office at _____(phone)_____ or go to <http://extension.agron.iastate.edu/immag/mac.html>

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Dry Manure Applicator Certification Workshops Offered in February

1/14/2011

AMES, Iowa -- Iowa State University Extension will offer manure applicator certification workshops for dry manure operators on seven different dates and locations in February. The certification workshop is for both confinement site manure applicators and commercial manure applicators who primarily apply dry or solid manure.

"The information in this workshop will benefit not only those needing certification, but anyone using dry or solid sources of manure," said Angie Rieck-Hinz, coordinator of the [Manure Applicator Certification Program](#).

Workshop topics will include land application rules, new rules, stockpiling requirements, a quick review of winter application laws and manure nitrogen issues. The workshops are free to attend and open to all. Applicators will be required to submit certification forms and fees to the Iowa Department of Natural Resources to meet manure applicator certification requirements.

Each workshop will begin at 1 p.m. Please register for one of the workshops by calling the number listed with the selected site. Workshop locations and dates are:

- **Feb. 2**, Branding Iron Restaurant, Thompson. Call 641-584-2261 to register.
- **Feb. 10**, Greenfield Chamber of Commerce meeting room, Greenfield. Call 641-743-8412 to register.
- **Feb. 16**, Sioux County Extension Office, Orange City. Call 712-737-4230 to register.
- **Feb. 17**, Ellsworth Public Library, Ellsworth. Call 515-832-9597 to register.
- **Feb. 18**, Heartland Museum, Clarion. Call 515-532-3453 to register.
- **Feb. 22**, Washington County Extension Office, Washington. Call 319-653-4811 to register.
- **Feb. 24**, Buena Vista County Extension Office, Storm Lake. Call 712-732-5056 to register.

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