

**2006 Manure Applicator Certification Program**  
**July 1, 2005 to June 30, 2006**  
**Agreement Number 06-7112-01**  
**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 the eighth year 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 are identified at a yearly planning meeting. 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 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.

Materials developed for the 2006 Confinement Site Manure Applicator program focused on 1) Review of Rules, Land Application Separation Distances, Fees, Paperwork and Recordkeeping Requirements; 2) Manure Sampling Strategies; 3) Best Management Practices: Feed Management; and 4) Best Management Practices: Biofilters. A complete listing of modules by year, and time allocated is presented in Table 1.

## Commercial Manure Applicator Program

Materials developed for the 2006 Commercial Manure Applicator program were also discussed at a yearly planning meeting and with input from commercial manure applicators present at the meeting and with NRCS, IDNR, and ISUE field staff. The program materials were delivered with PowerPoint presentations in live format via the annual satellite downlink held on January 6, 2006.

The 2006 Commercial Manure Applicator program included the following modules: 1) A Review of Rules, Land Application Separation Distances, Recordkeeping Requirements, Employee Substitution, Paperwork and Fees; 2) Bio-security, Your Health, and Manure; 3) Economics of Manure Transportation and Utilization; and 4) Soil Infiltration Issues. Complete listing of modules by year, and time allocated is presented in Table 1 (prior to 2001, program was not developed into modules).

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

Year	Confinement Site Manure Applicator Program	Commercial Manure Applicator Program
2001	Sampling Manure 20 min.	Recordkeeping 20 min
	Manure Nutrient Research 20 min.	Emergency Action Plan 30 min
	Emergency Action Plans 30 min.	Rules 30 min
	Rules 25 min	Manure Application Techniques 45 min
	Recordkeeping 25 min	Case Studies 30 min
		Questions and Answers 25 min
2002	Feeding Strategies for Nutrient Management 30 min	Rules
	Equipment Calibration 20 min	Case Studies
	Dead Animal Disposal 30 min	Pumping, Hauling and Land Application Issues
	Equipment Options and Land Application Concerns 20 min	Interview with County Supervisor – road and bridge damage, weight restrictions (video)
	Dry Manure Issues (optional) 20 min	
2003	Phosphorus and Water Quality 40 min	Land Application Rules; Separation Distances and Review of Matrix Implications 40 min + 10 min Q and A
	Review of Rules 40 min	Manure Application Equipment effects on Odor, Residue Cover and Crop Yields 40 min
	Earthen Basin Inspection (video) 20 min	Case Studies and Manure Spill Responses 15 min
	Recordkeeping 20 min	Pollution Liability Insurance 20 min
		Iowa Commercial Nutrient Applicators Association 10 min
		Phosphorus and Water Quality Issues 30 min + 15 min Q and A

2004	Review of Rules; Land Application Separation Distances; Recordkeeping 50 min	Review of Rules; Land Application and Separation Distances; Recordkeeping 50 min
	Manure Spill Response Kit and Simulated Manure Spill (video) 12 min	Manure Spill Response Kit and Simulated Manure Spill (video) 12 min
	Making your Manure Management Plan work for you 20 min	How to Read Manure Management Plans 30 min + 5 min Q & A
	Biosecurity Issues 20 min	Biosecurity Issues (video) 33 min
		Recommendations for Commercial Applicators during agitation & pumping 22 min
	Manure Pit Storage Safety 20 min	Iowa Commercial Nutrient Applicators Association 10 minutes
	How to complete forms and review of fees. 15 min	
	Additional Q & A section 22 min	
2005	Review of Rules, Land Application Separation Distances, Fees, Paperwork and Recordkeeping Requirements 25 min	Review of Rules, Land Application Separation Distances, Recordkeeping Requirements, Employee Substitution, Paperwork and Fees 30 min
	Hydrogen Sulfide Emissions during Pumping and Agitation 25 min.	Hydrogen Sulfide Emissions during Pumping and Agitation 35 min
	Soil Sampling for Regulatory Requirements 20 min	Equipment Weight Restrictions for 2005 25 min
	Introduction to RUSLE2 and the P Index and their use in Manure Management Plans 35 min.	Injector effects on soil, odor, residue and manure incorporation 45 min
	Question and Answers 15 minutes	Resources for Commercial Manure Applicators 15 min
		Question and Answers 30 min
2006	Review of Rules, Land Application Separation Distances, Fees, Paperwork and Recordkeeping Requirements 25 min	Review of Rules, Land Application Separation Distances, Recordkeeping Requirements, Employee Substitution, Paperwork and Fees 40 min
	Manure Sampling Strategies 25 min	Soil Infiltration Issues 35 min
	Best Management Practices—Feed Management 30 min	Biosecurity, Your Health, and Manure 50 min
	Best Management Practices—Biofilters 25 min	Economics of Manure Transportation and Utilization 35 min
	Question and Answers 15 min	How to complete forms and review fees 5 min
		Additional Q & A section 15 min

## Supporting Training Materials

There were seven fact sheets distributed to manure applicators via the training workshops in 2006. The first three fact sheets, prepared by IDNR and reviewed by ISUE, were distributed to both the commercial and confinement site applicators. The last four fact sheets were made available to the confinement site applicators.

- DNR 113, Separation Distances for Land Application of Manure (revised January 2003)
- DNR 115 Commercial Manure Applicator Certification (revised October, 2004)
- DNR 116 Manure Applicators Certification (revised October, 2004)
- PM 1558 How to Sample Manure for Nutrient Analysis (revised November, 2004)
- University of Minnesota Biofilters for Odor Control Regents

- Phytase Fact Sheet
- Water Testing Laboratories for Sulfate and Sulfide

These fact sheets were also linked on the Manure Applicators Certification web page- a component of the IMMAG web page, and made available at field days, the Iowa Pork Congress and association meetings. Copies of these fact sheets are available in Appendix 1.

## **Certification Workshops**

### **Confinement Site Workshops**

Training workshops for the 2006 Confinement Site Manure Applicator Certification program began in January 2006 and continued through February 2006. There were 75 training workshops held in the county extension offices. In addition to the workshops, confinement site applicators could also meet training requirements by watching a two-hour videotape at their county Extension office.

Extension staff reported 1,352 confinement site applicators attended the certification workshops. Of those applicators, there were 1,175 who returned the evaluations to ISUE for the workshop they attended. There were 120 confinement site applicators who returned evaluations from watching a two-hour video at a county extension office for a total of 1,295 evaluations sent to Iowa State University Extension. A total of 75 training events were implemented for the 2006 Confinement Site program using staff resources of 23 field specialists in Agricultural Biosystems and Engineering and Livestock Specialist in Extension.

### **Commercial Applicator Workshops**

The 2006 Commercial Manure Applicator program was delivered via satellite downlink on January 6, 2006. This downlink was broadcasted to 82 Iowa county Extension offices, one Nebraska county Extension office and two Minnesota county Extension centers. The two Minnesota sites offered joint training for Minnesota and Iowa commercial applicators to meet the requirements of both states. This joint program was a 4-hour program that covered all the materials presented in the Iowa program and provided one extra hour of rules to meet the Minnesota requirements. This was the fifth consecutive year for this joint effort.

Portions of the program were delivered via the Commercial satellite downlink program were also used to develop the training videotapes for both the Confinement Site Applicator and Commercial Applicator program. The module on rules was taped separately for the confinement site program. The satellite downlink was taped and edited accordingly to provide a two-hour and three-hour program respectively. Each county extension office received one copy of the two-hour Confinement Site Applicator

Tape and one copy of the three-hour Commercial Applicator Tape. The tapes were produced and distributed within 2 weeks of the Commercial Manure Applicator Program to ensure the applicators had adequate time to view tapes prior to the annual March 1<sup>st</sup> uniform certification deadline.

The Extension staff reported that 598 commercial applicators attended the certification meetings, while ISUE has collected 670 commercial applicators evaluations. Please note the discrepancy in numbers reported for attendance as compared to the number of evaluations collected is due to the fact that not all county offices report attendance. From those evaluations, 439 were from applicators who attended the satellite downlink and 231 evaluations were returned from applicators viewing the videotape.

### **Specialty Certification Workshops/Training**

In February, there were three dry manure applicator workshops held in the state of Iowa. On February 8, 2006, a workshop was held in Thompson, Iowa. Another workshop was held on February 14, 2006, in Greenfield, Iowa, and then the last one on February 24, 2006, in Clarion, Iowa. 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, dry manure sales, dry manure sampling, dry manure calibration, and manure stockpiling. There were 29 applicators who attended the Thompson workshop, 37 applicators attended the Greenfield workshop, and 52 applicators attended the workshop in Clarion.

### **Certification Workshop Evaluations**

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 fill out an evaluation on the information of the material, an overall evaluation, 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 2006 were as follows:

- 60% of Confinement site applicators reported they have already developed and implemented a manure sampling plan, where as 25% reported they plan to develop one in the next 12 months.
- 40% of Confinement site applicators reported they have developed and implemented a feed management plan to address manure nutrient levels and air quality concerns, and 23% reported they plan to adopt a feed management plan.
- 16% of Confinement site applicators reported they have developed and implemented other best management plan such as biofilters to address air quality concerns, and 20% report they plan to adopt these strategies.

- 57% of Commercial applicators report they have analyzed their hauling and pumping charges based on distances and services, while 16% plan to adopt these practices due to current training.
- 51% of Commercial applicators report they have worked with employees to address health issues concerning manure application, while 25% plan to address this issue.
- 50% of Commercial applicators report they have adjusted application rates based on soil infiltration capacity, and 20% plan to adopt this practice.

Again in this year's program evaluation, each program asked two questions which pertained to the previous year's program to determine what changes had been made in practices in the past year. The goal in asking these questions was to determine if the applicators, who attended a meeting in the previous year, made changes to their management practices.

As a result of last year's program:

- 55% of the Confinement site applicators implemented a soil sampling plan to meet the P-Index manure plan requirements compared to the 65% who said they planned to after the previous year's workshops;
- 43% of the Confinement site applicators developed an emergency response plan to address the dangers of Hydrogen Sulfide during pumping and agitation compared to the 56% who said they planned to;
- 71% of Commercial applicators recognize pit gas issues and worked with producers to minimize concerns compared to 53% who planned to;
- 59% of the Commercial applicators implemented equipment weight restrictions compared to 50% who said they planned to after the previous year's workshops.

Complete results of program surveys and included in Appendix 2. These results are continuously updated as we receive evaluations from County Extension offices. For the latest version of these files, please access the files on the web at: <http://extension.agron.iastate.edu/immag/maceval.html>. Evaluations from previous years are also available at this site.

### **Advisory Committee**

The 2006 advisory committee was made up ISUE campus and field specialists, DNR staff, NRCS staff, and members of the Iowa Commercial Nutrient Applicator's Association. The group met on July 20, 2005, at ISU to review the 2006 program, and discussed the development of the training materials, updates to certification forms, attendance forms, and other required paperwork including the development of the evaluation forms for both 2006 programs. The committee set deadlines for program material development and review and additional communication was primarily conducted electronically via email.

## Promotional Materials

Promotional materials used in the 2006 Manure Applicator Certification programs were similar to that of previous years (Appendix 3). Brochures were developed for both programs to be used as an informational and recruitment tool. Copies of the brochures are attached in Appendix 3. Copies of the brochures were mailed to all currently certified confinement site and commercial applicators in December 2005. A total of five press releases were prepared and were used by county extension offices for local media. Workshop dates were maintained on the MAC section of the IMMAG web site (<http://extension.agron.iastate.edu/immag>) and were also linked on the Iowa Pork Industry Center's web page <http://www.ipic.iastate.edu/pastevents06.html> (<http://www.extension.iastate.edu/ipic/events.html> ). A list of workshop dates was distributed to attendees at the Iowa Pork Congress in January 2006. And, finally a list of confinement site workshops appeared in the December 2005 edition of the *Iowa Pork Producer Magazine* found at: <http://www.iowapork.org/download/IPP-0512.pdf>

All of the 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://extension.agron.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.

## Budget

A copy of the budget expenditures as of June 30, 2006 is attached in Appendix 4. A final copy of the expenditures will be submitted within 60 day of the project's end date, per article 3.2 of the contract.

## Appendix 1.

- DNR 113 Separation Distances for Land Application of Manure  
<http://www.iowadnr.com/afo/files/sepdstb4.pdf>
- DNR 115 Commercial Manure Applicator Certification  
<http://www.iowadnr.com/afo/files/commappcert.pdf>
- DNR 116 Manure Applicators Certification  
[http://www.iowadnr.com/afo/files/conf\\_12.pdf](http://www.iowadnr.com/afo/files/conf_12.pdf)
- PM 1558 How to Sample Manure for Nutrient Analysis  
<http://www.extension.iastate.edu/Publications/PM1558.pdf>
- University of Minnesota Biofilters for Odor Control Regents  
<http://www.manure.umn.edu/assets/biofilters.pdf>
- Phytase Fact Sheet  
<http://extension.agron.iastate.edu/immag/pubs/phytase.doc>
- Water Testing Laboratories for Sulfate and Sulfide  
<https://www.extension.iastate.edu/Pages/agron/ForStaff/2006/laboratories.pdf>

**Appendix 2.  
Evaluation Summaries**

**2006 Confinement Site Manure Applicator Evaluation Summary**

**2006 Commercial Manure Applicator Evaluation Summary**

## 2006 Confinement Site Manure Applicator Certification Evaluation

### Iowa State University Extension

Summary of Data Collected as of 6/30/06

Workshop attendees: 1175 Video: 120

Total Responses: 1295

<b>Information presented</b>	<b>Excellent</b>	<b>Good</b>	<b>Fair</b>	<b>Poor</b>	<b>No Response</b>	<b>Total</b>
1. Rules Update:	558 43%	705 54%	26 2%	1 0%	5 0%	1295
2. Manure Sampling Strategies:	636 49%	627 48%	24 2%	1 0%	7 1%	1295
3. BMPs-Feed Management:	465 36%	746 58%	62 5%	8 1%	14 1%	1295
4. 4. BMPs-Biofilters:	458 35%	725 56%	66 5%	8 1%	38 3%	1295

<b>Overall evaluation:</b>	<b>Agree</b>	<b>Undecided</b>	<b>Disagree</b>	<b>Does Not Apply</b>	<b>No Response</b>	
1. The information presented today was useful for my farm operation.	1076 83%	141 11%	26 2%	40 3%	12 1%	1295
2. The presenters were prepared and knowledgeable.	1220 94%	55 4%	6 0%	4 0%	10 1%	1295

<b>As a result of today's training workshop will you:</b>	<b>Adopted Prior to Current Training</b>	<b>Plan to Adopt Because of Current training</b>	<b>Choose not to Adopt</b>	<b>Does Not Apply</b>	<b>No Response</b>	
1. Develop and implement a manure sampling plan in the next 12 months?	783 60%	324 25%	19 1%	148 11%	21 2%	1295
2. Develop and implement a feed management plan to address manure nutrient levels and air quality?	522 40%	294 23%	85 7%	353 27%	41 3%	1295
3. Develop and implement other best management plans such as biofilters to address air quality concerns.	209 16%	264 20%	467 36%	297 23%	58 4%	1295

<b>As a result of last's year's program you:</b>	<b>I Adopted</b>	<b>I did not Adopt</b>	<b>Did not Apply</b>	<b>No Response</b>		
1. Implemented a soil sampling plan to meet the P-Index manure plan requirements.	710 55%	194 15%	306 24%	85 7%		1295
2. Developed an emergency response plan to address the dangers of Hydrogen Sulfide during pumping and agitation.	559 43%	301 23%	332 26%	103 8%		1295

## 2006 Commercial Applicator Certification Evaluation

### Iowa State University Extension

Summary of data collected as of 6/30/06

Workshop attendees: 439 Video attendees: 231

Web Cast: 0

Total Responses:

670

<b>Information that was presented</b>	<b>Excellent</b>	<b>Good</b>	<b>Fair</b>	<b>Poor</b>	<b>No Response</b>	<b>Total</b>
1. Rules Update:	134 20%	459 69%	66 10%	7 1%	4 1%	670
2. Bio-security, your health, and manure:	178 27%	390 58%	83 12%	16 2%	3 0%	670
3. Economics of manure transportation and utilization:	156 23%	418 62%	70 10%	13 2%	13 2%	670
4. Soil infiltration issues:	88 13%	335 50%	163 24%	78 12%	6 1%	670
<b>Overall Evaluation</b>	<b>Agree</b>	<b>Undecided</b>	<b>Disagree</b>	<b>Does Not Apply</b>	<b>No Response</b>	
1. The information presented today was useful to me as a commercial manure service representative?	482 72%	129 19%	42 6%	13 2%	4 1%	670
2. The presenters were prepared and knowledgeable?	494 74%	141 21%	28 4%	3 0%	4 1%	670
<b>As a result of today's training workshop, will you:</b>	<b>Adopted Prior</b>	<b>Plan to Adopt</b>	<b>Choose not to Adopt</b>	<b>Does not Apply</b>	<b>No Response</b>	
1. Analyze your hauling and pumping charges based on distances and services?	383 57%	110 16%	19 3%	141 21%	17 3%	670
2. Work with employees to address health issues concerning manure application?	340 51%	165 25%	31 5%	119 18%	15 2%	670
3. Adjust application rates based on soil infiltration capacity?	334 50%	135 20%	61 9%	120 18%	20 3%	670

<b>As a result of last year's program you:</b>	<b>I Adopted</b>	<b>I did not Adopt</b>	<b>Did not Apply</b>	<b>No Response</b>		<b>Total</b>
1. Did your recognize pit gas issues and work with producers to minimize concerns?	478 71%	20 3%	153 23%	19 3%		670
2. Did you implement equipment weight restrictions?	396 59%	48 7%	204 30%	22 3%		670

**Appendix 3.  
Brochures and Press Releases**

**Applying Manure This Fall? Check Your Manure Applicator Certification Requirements**

<http://www.extension.iastate.edu/news/2005/aug/070403.htm>

**2006 Confinement Site Press Release**

<http://www.extension.iastate.edu/news/2005/dec/070702.htm>

**2006 Commercial Manure Applicator Press Release**

<http://www.extension.iastate.edu/news/2005/dec/070703.htm>

**Joint Iowa-Minnesota Commercial Manure Applicator Training**

<http://www.extension.iastate.edu/news/2005/dec/071901.htm>

**Dry Manure Applicator Certification Offered**

<http://www.extension.iastate.edu/news/2006/jan/071001.htm>

**2006 Confinement Site Manure Applicator Brochure**

<http://extension.agron.iastate.edu/immag/certification/06csmacbrochure.pdf>

**2006 Commercial Manure Applicator Brochure**

<http://extension.agron.iastate.edu/immag/certification/06commmacbrochure.pdf>

**2006 Iowa Pork Producers Magazine Article for Confinement Site Applicators (url no longer available)**

# Applying Manure This Fall? Check Your Manure Applicator Certification Requirements

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8/4/2005

AMES, Iowa -- Manure applicators who haul or handle manure from a confinement site facility with more than 500 animal units and commercial manure applicators are required by Iowa law to be certified to apply manure in Iowa.

"My best estimate based on historical numbers of certified applicators is somewhere between 300-800 applicators still need to attend training this year to maintain or renew their licenses to apply manure before the fall application season," says Angie Rieck-Hinz, Extension program specialist.

Confinement site applicators must attend two hours of annual training to maintain their three-year license. Applicators must pay certification and education fees. After March 1 of the current year, applicators who are renewing their certificates must also pay a late fee.

Commercial manure applicators must attend three hours of training or take and pass an exam annually. Commercial applicators who need to renew their licenses after March 1 will need to pay a late fee in addition to the certification fee and education fee.

Commercial manure applicators are reminded they must be associated with a commercial manure service.

"Although manure applicators sometimes complain about having to take annual training, they also say that the training has helped them respond quickly and well to a spill, or learn about law changes that affect their business," said Jen Christian, DNR environmental specialist.

Commercial and confinement site applicators may meet certification requirements by scheduling an appointment with their local ISU Extension county office to watch a videotape or by contacting their local DNR field office to schedule an appointment to take the certification exam.

A Dry Manure Application Field Day, scheduled for Aug. 16 near Clarion will meet the certification training requirements for both commercial and confinement site manure applicators. For more information regarding this field day, please call the Wright County Extension Office at (515) 532-3453.

For more information about manure applicator certification requirements contact your local county extension office, visit the Manure Applicator Certification Web page at <http://extension.agron.iastate.edu/immag/mac.html> or contact the regional DNR field office.

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## Annual Workshops for Confinement Site Manure Applicators Scheduled for 2006

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**12/7/2005**

AMES, Iowa -- Confinement site manure applicators should plan to attend a two-hour continuing education workshop offered by Iowa State University (ISU) Extension in January or February 2006 to maintain applicator certification requirements. A total of 77 workshops will be held in 74 different counties. Contact your local ISU Extension county office for a list of workshop dates and locations, or visit: <http://extension.agron.iastate.edu/immag/certification/06confdates.html>

"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.

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 in 2006. After passing the exam, confinement site applicators can become recertified by taking and passing a second exam on different day, or by attending a two-hour workshop scheduled for January or February 2006.

During the workshop, applicators will learn about manure application rules, new record keeping requirements, manure sampling for nutrient analysis, and best management practices to address manure and air quality issues.

The workshop also will serve as initial certification for those applicants who are not currently certified. 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.

"These workshops provide valuable information to all livestock producers, not just the producers who are required to attend to be certified," said Rieck-Hinz. "Open lot livestock producers and producers with small confinement facilities who are not currently required to be certified can learn about manure application separation distances and manure sampling strategies which are valuable to all producers considering the rising prices of commercial nitrogen fertilizer."

The certification fee is \$100 for a three-year certificate. In addition, applicators will pay an annual education fee of \$25. There is no fee to attend a workshop. 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. Applicators are highly encouraged to attend the workshops due to the uncertainty of when videotapes will be available for training in late January and February.

If you have questions about the Manure Applicator Certification Program contact your local ISU Extension county office or go to: <http://extension.agron.iastate.edu/immag/mac.html>

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## Commercial Manure Applicator Training Scheduled For Jan. 6, 2006

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**12/7/2005**

AMES, Iowa -- To help commercial manure applicators receive the three hours of annual continuing instruction required to maintain their manure applicator certification, Iowa State University (ISU) Extension and the Iowa Department of Natural Resources (IDNR) will conduct a Commercial Manure Applicator Satellite Program on Friday, Jan. 6, 2006, from 9 a.m. to 12:30 p.m.

There is no fee for the workshop but applicators must register with the ISU Extension county office where they plan to attend. Currently certified commercial manure applicators should receive a copy of the program registration brochure containing workshop locations in the mail in early December. If you do not receive a copy, please contact your ISU Extension county office or download a copy off the Web at:

<http://extension.agron.iastate.edu/immag/certification/06commmacbrochure.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, recordkeeping requirements, economics of hauling manure, worker safety and land application issues.

All currently certified commercial manure applicator licenses will expire on March 1, 2006. Those wanting to renew must complete training requirements and submit forms and fees prior to March 1, 2006 to renew and avoid paying the late fee for certification. If an applicator attended training for the first time in the fall of 2005, they should make plans to attend the training again in January 2006 to meet the annual requirements.

Commercial applicators are highly encouraged to attend the satellite downlink program due to the uncertainty of when videotapes will be available for training in late January and February.

Commercial manure applicators also may contact their local IDNR field office to schedule an appointment to take the certification exam to meet certification requirements. Applicators who want to take the exam may wish to access a copy of the study guide manual to help prepare for the exam. The study guide is available at the following Web address: <http://www.extension.iastate.edu/pubs/PM1778/homepage.html>

If you have questions about the satellite downlink program, contact your local ISU Extension county office or on the Web at: <http://extension.agron.iastate.edu/immag/mac.html>

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## Joint Iowa-Minnesota Commercial Manure Applicator Training

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12/19/2005

AMES, Iowa -- Commercial or custom manure applicators who need to meet certification requirements in both Iowa and Minnesota should plan to attend the Jan. 6, 2006, commercial manure satellite uplink held in Nobles County or Mower County, Minn. This workshop will begin at 9 a.m. and continue until 1 p.m. to meet the regulatory requirements for both Iowa and Minnesota. Joint training will not be offered at any Iowa sites in 2006.

The program will cover the regulatory requirements of both Iowa and Minnesota, the economics of hauling manure, biosecurity and human health issues, and land application issues. Applicators should plan to arrive prior to 9 a.m. to register for the workshop. Applicators who need to meet certification requirements in both states will also need to pay certification fees in both states, however there is no fee to attend the workshop.

The Nobles County workshop will be held at the Nobles County Government Center in Worthington, Minn., and the Mower County workshop will be held at the Mower County Courthouse in Austin, Minn. Complete program requirements and workshop locations can be found on the Web at:

<http://extension.agron.iastate.edu/immag/certification/06commmacbrochure.pdf>

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## Dry Manure Applicator Certification Offered

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1/12/2006

AMES, Iowa -- Iowa State University (ISU) Extension will offer a three-hour manure applicator certification workshop for dry manure operators at three locations in February.

This certification meeting is for both confinement site and commercial manure applicators who primarily apply dry manure. Although confinement site applicators are only required to attend two hours of annual training, this meeting will be three hours in length to provide training to commercial applicators. All attendees will be required to stay for the entire workshop.

Workshop topics will include current regulatory requirements for manure applicators, manure sampling strategies, Chapter 200A requirements for sales of dry manure, calibration and uniformity of application and stockpiling issues.

Workshop locations and dates include:

Feb. 8 at 1p.m. at the Branding Iron Restaurant in Thompson, (641) 584-2261

Feb. 14 at 9 a.m. at the Adair County ISU Extension Office in Greenfield, (641) 743-8412

Feb. 24 at 9 a.m. at the Wright County ISU Extension Office, Clarion, (515) 532-3453

Please contact the phone number where you are planning to attend to register for this workshop. There is no fee to attend these workshops.

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**Appendix 4.  
Budget Summary**

**MANURE APPLICATOR CERTIFICATION EXPENSES**

July 1, 2005 to June 30, 2006

Salary.....	57,159.79
Benefits (Salary & Hourly).....	16,525.66
<b>Subtotal Personnel .....</b>	<b>73,685.45</b>
Travel.....	5,097.53
Supplies .....	2,220.43
Printing/copying .....	1,925.88
Other	
Contracted services .....	12,034.00
County extension workshops, meeting rooms and office asst. ....	14,080.00
Phone and computer.....	672.95
Satellite downlink expenses .....	2,400.00
ICN in-service .....	431.42
Postage.....	1286.22
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Total Spent to Date .....	113,833.88
Encumbrances (field specialists).....	26,500.00
<b>Balance .....</b>	<b>6,516.12</b>