



Odor and Nutrient Management

Winter 2005
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Commercial Applicator Training for 2006

by Angela Rieck-Hinz, Department of Agronomy

Iowa State University (ISU) Extension, in cooperation with the Iowa Department of Natural Resources (IDNR), will offer a satellite downlink program on Friday, Jan. 6, 2006, for commercial manure applicators. The program will begin with registration at 8:30 a.m. and conclude at 12 noon. Participants must be registered and in their seats by 9 a.m. when the program begins. This program will provide the mandated three hours of annual training required of commercial manure service representatives and business managers. All currently certified commercial applicators must attend training and submit forms prior to March 1, 2006, to avoid paying late fees.

Commercial manure service representatives and managers may also meet certification requirements by contacting their regional IDNR field office and scheduling an appointment to take the exam or by scheduling an appointment at their county extension office to watch the training video. Because the training tapes are an edited version of the three-hour satellite program and must be duplicated and sent to county offices, ISU Extension can't guarantee the training tapes will be available for training prior to mid-February 2006. For this reason you are encouraged to attend the satellite program on Jan. 6, 2006. Currently certified commercial applicators will receive a registration brochure in mid-December 2005. If you do not receive a brochure, you may access a brochure at <http://extension.agron.iastate.edu/immag/certification/06commmacbrochure.pdf>.

Applicator workshops for dry manure applicators will be held on Feb. 8 at 1 p.m. at the Branding Iron in Thompson; Feb. 14 at 9 a.m. at the Adair County Extension Office in Greenfield; and Feb. 24 at 9 a.m. at the Wright County Extension office in Clarion. These workshops will be three hours in length, will focus on dry manure issues, and will meet training requirements for both confinement site and commercial manure applicators.

Commercial applicators who need to be certified in both Iowa and Minnesota can meet requirement for each state by attending one of the joint training sessions held on Jan. 6, 2006, in either Nobles County or Mower County Minnesota. There are no sites in Iowa offering joint training in 2006.

You must register for the program you plan to attend. You can access the registration form by visiting the web page listed above, or by requesting a copy of the brochure and registration form from your local Iowa State University County Extension office.



CAFO Determinations—Review the Federal Requirements

by Gene Tinker, Iowa Department of Natural Resources

A livestock feeding operation can be a concentrated animal feeding operation (CAFO) based on 1) size (1,000 animal units or larger), 2) size and management or location (300 to 999 animal units with a direct discharge to a water of the United States or a water of the U.S. running through the operation), or 3) designation as a CAFO due to a significant contribution of manure or process wastewater to waters of the U.S.

CAFO determination for an animal feeding operation is important because it determines how the facility may operate. In Iowa confinement operations are no discharge systems, so having a CAFO determination normally isn't an issue. But for open feedlot operations the CAFO determination impacts whether the operation can have a legal discharge. Open feedlots that are determined to be



2006 Confinement Site Manure Applicator Workshops

by Angela Rieck-Hinz, Department of Agronomy

Iowa State University Extension will offer workshops for confinement site manure applicators in January and February 2006. See Table 1 for locations and dates. These workshops will provide the two hours of annual training required by law for confinement site manure applicators. Confinement site applicators are encouraged to attend one of the offered workshops to avoid paying late fee penalties for renewing applicator certificates.

Due to the short turnaround time in deadlines, ISU Extension can't guarantee the availability of videotapes for training prior to mid-February 2006.

For exact workshop locations and to confirm exact times or to determine meeting options in the event of bad weather, please call the ISU Extension office in the county where you plan to attend a workshop. Registration is not required for these workshops; however, you may wish to contact your extension office to ensure there will be adequate space and training materials available. You can access the confinement site workshop brochure at <http://extension.agron.iastate.edu/immag/certification/06csmacbrochure.pdf>.

Table 1. 2006 Confinement Site Manure Applicator workshop dates and locations.

County	Workshop Location	Telephone	Date	Time	Alternate Meeting Location
Adair	City Hall, Adair	(641) 734-8412	February 7, 2006	1:30 p.m.	See Adams or Dallas
Adair	County Extension Office in Greenfield	(641) 734-8412	February 14, 2006 <small>This meeting will focus on dry manure issues and will be 3 hours to serve commercial applicators as well.</small>	9:00 a.m.	See Adams or Dallas
Adams	L & J's Kitchen, Corning	(641) 322-3184	January 24, 2006	1:30 p.m.	See Adair or Page
Allamakee	County Extension Office in Waukon	(563) 568-6345	February 15, 2006	1:30 p.m.	See Clayton or Fayette
Benton	Kirkwood Center, Vinton	(319) 472-4739	February 9, 2006	9:30 a.m.	See Black Hawk, Buchanan or Linn
Boone	County Extension Office in Boone	(515) 432-3882	January 31, 2006	9:30 a.m.	See Greene or Story
Bremer	NE Research and Demonstration Farm at Nashua	(319) 882-4275	January 18, 2006	9:30 a.m.	See Butler or Chickasaw
Buchanan	County Extension Office in Independence	(319) 334-7161	January 24, 2006	1:30 p.m.	See Black Hawk or Fayette
Buena Vista	County Extension Office in Storm Lake	(712) 732-5056	February 27, 2006	1:30 p.m.	See Clay, Cherokee or Sac
Buena Vista	County Extension Office in Storm Lake	(712) 732-5056	February 28, 2006	7:00 p.m.	See Clay, Cherokee or Sac
Butler	NE Research and Demonstration Farm at Nashua	(319) 267-2707	January 18, 2006	9:30 a.m.	See Bremer, Floyd or Franklin
Calhoun	County Extension Office in Rockwell City	(712) 297-8611	February 3, 2006	9:30 a.m.	See Pocahontas, Sac or Webster
Carroll	Recreation Center, Carroll	(712) 792-2364	February 16, 2006	7:00 p.m.	See Calhoun, Crawford or Greene
Cedar	Cedar County Courthouse in Tipton	(563) 886-6157	February 2, 2006	9:30 a.m.	See Clinton, Scott or Muscatine
Cerro Gordo	County Extension Office in Mason City	(641) 423-0844	February 3, 2006	9:30 a.m.	See Hancock, Floyd or Franklin
Cherokee	County Extension Office in Cherokee	(712) 225-6196	January 17, 2006	9:30 a.m.	See Plymouth, O'Brien or Buena Vista
Chickasaw	County Extension Office in New Hampton	(641) 394-2174	January 18, 2006	1:30 p.m.	See Howard or Floyd
Clay	County Extension Office in Spencer	(712) 262-2264	February 13, 2006 <small>This workshop will test prep for the DNR exam for recertification. A \$10 fee will be charged.</small>	9:30 a.m.	See Dickinson or O'Brien
Clay	Dickens Community Center	(712) 262-2264	January 31, 2006	7:00 p.m.	See Dickinson or O'Brien
Clayton	County Extension Office in Elkader	(563) 245-1451	February 16, 2006	1:30 p.m.	See Allamakee or Fayette

Iowa Manure Matters: Odor and Nutrient Management



County	Workshop Location	Telephone	Date	Time	Alternate Meeting Location
Clinton	Community Center, DeWitt	(563) 659-5125	January 17, 2006	1:30 p.m.	See Cedar or Scott
Crawford	Western Iowa Research Farm at Castana	(712) 263-4697	February 24, 2006	1:30 p.m.	See Ida, Monona, Carroll or Shelby
Dallas	County Extension Office in Adel	(515) 993-4281	January 18, 2006	1:30 p.m.	See Greene or Boone
Davis	County Extension Office in Bloomfield	(641) 664-2730	January 23, 2006	1:30 p.m.	See Wapello or Jefferson
Des Moines	County Extension Office in Burlington	(319) 754-7556	January 31, 2006	9:30 a.m.	See Henry or Lee
Dickinson	County Extension Office in Spirit Lake	(712) 336-3488	January 31, 2006	1:30 p.m.	See Clayton
Dubuque	County Extension Office in Dubuque	(563) 583-6496	January 25, 2006	9:30 a.m.	See Clayton
Fayette	County Extension Office in Fayette	(563) 425-3331	January 12, 2006	9:30 a.m.	See Bremer, Clayton or Chickasaw
Fayette	County Extension Office in Fayette	(563) 425-3331	February 23, 2006	9:30 a.m.	See Bremer, Clayton or Chickasaw
Floyd	NE Research and Demonstration Farm at Nashua	(641) 228-1453	January 18, 2006	9:30 a.m.	See Mitchell, Chickasaw or Butler
Franklin	Hampton State Bank, Hampton	(641) 456-4811	February 22, 2006	9:30 a.m.	See Wright, Butler or Cerro Gordo
Greene	County Extension Office in Jefferson	(515) 386-2138	January 23, 2006	1:30 p.m.	See Carroll or Boone
Grundy	Memorial Building, Dike	(319) 824-6979	January 20, 2006	9:30 a.m.	See Butler or Hardin
Hamilton	County Extension Office in Webster City	(515) 832-9597	February 9, 2006	9:30 a.m. OR 1:30 p.m.	See Webster or Wright
Hancock	County Extension Office in Garner	(641) 923-2856	February 3, 2006	1:30 p.m.	See Cerro Gordo or Kossuth
Hardin	County Extension Office in Iowa Falls	(641) 648-4850	February 1, 2006	1:30 p.m. OR 7:00 p.m.	See Hamilton or Franklin
Henry	Masonic Lodge, Mt. Pleasant	(319) 385-8126	January 31, 2006	1:30 p.m.	See Des Moines, Jefferson or Lee
Howard	County Extension Office in Cresco	(563) 547-3001	February 9, 2006	9:30 a.m.	See Mitchell or Chickasaw
Humboldt	County Extension Office in Humboldt	(515) 332-2201	February 20, 2006	1:30 p.m.	See Pocahontas or Wright
Ida	Correctionville Community Center	(712) 364-3003	February 7, 2006	1:30 p.m.	See Woodbury, Sac or Cherokee
Jasper	County Extension Office in Newton	(641) 792-6433	January 24, 2006	1:30 p.m.	See Marion or Marshall
Jefferson	County Extension Office in Fairfield	(641) 472-4166	February 7, 2006	9:30 a.m.	See Keokuk, Wapello or Washington
Johnson	Stutsman, Inc. Hills	(319) 337-2145	January 24, 2006	9:30 a.m.	See Cedar or Washington
Keokuk	County Extension Office in Sigourney	(641) 622-2680	January 19, 2006	9:30 a.m.	See Mahaska, Washington or Wapello
Kossuth	Community Center, Burt	(515) 295-2469	January 25, 2006	9:30 a.m.	See Hancock or Humboldt
Lee	Pilot Grove Savings Bank Community Room, Donnellson	(319) 835-5116	February 7, 2006	1:30 p.m.	See Henry or Des Moines
Linn	County Extension Office in Marion	(319) 377-9839	February 9, 2006	1:30 p.m.	See Buchanan, Benton or Johnson
Louisa	SE Research Farm at Crawfordsville	(319) 523-2371	January 24, 2006	1:30 p.m.	See Washington, Muscatine or Des Moines
Lyon	Forster Community Bldg., Rock Rapids	(712) 472-2576	February 9, 2006	1:30 p.m.	See Osceola, Sioux or O'Brien

Iowa Manure Matters: Odor and Nutrient Management

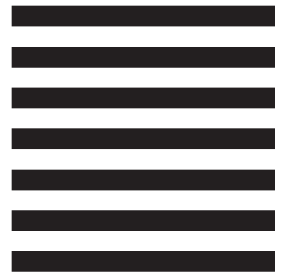


County	Workshop Location	Telephone	Date	Time	Alternate Meeting Location
Mahaska	County Extension Office in Oskaloosa	(641) 673-5841	January 19, 2006	1:30 p.m.	See Marion or Keokuk
Marion	County Extension Office in Knoxville	(641) 842-2014	January 19, 2006	1:30 p.m.	See Jasper or Mahaska
Marshall	County Extension Office in Marshalltown	(641) 752-1551	February 17, 2006	1:30 p.m.	See Jasper or Story
Mitchell	County Extension Office in Osage	(641) 732-5574	February 10, 2006	1:30 p.m.	See Howard or Floyd
Monona	Western Iowa Research Farm at Castana	(712) 423-2175	February 24, 2006	1:30 p.m.	See Crawford or Woodbury
Muscatine	County Extension Office in Muscatine	(563) 263-5701	February 2, 2006	1:30 p.m.	See Cedar, Johnson or Scott
O'Brien	Northwest Community College, Bldg C, Sheldon	(712) 757-5045	February 9, 2006	7:00 p.m.	See Osceola, Sioux, Clay or Cherokee
O'Brien	NW Iowa Research and Demonstration Farm near Calumet	(712) 757-5045	February 14, 2006	9:30 a.m.	See Osceola, Sioux, Clay or Cherokee
Osceola	Community Center, Melvin	(712) 754-3648	February 9, 2006	9:30 a.m.	See Lyon, Dickinson or O'Brien
Page	County Extension Office in Clarinda	(712) 542-5171	February 1, 2006	1:30 p.m.	See Adams
Plymouth	Prime Bank Basement, LeMars	(712) 546-7835	February 7, 2006	9:30 a.m.	See Sioux, Cherokee or Woodbury
Pocahontas	Community Center, Rolfe	(712) 335-3103	January 25, 2006,	1:30 p.m.	See Buena Vista or Humboldt
Pottawattamie East	Fire Station Meeting Room, Hancock	(712) 482-6449	January 5, 2006	7:00 p.m.	See Shelby
Sac	Iowa State Bank, Sac City	(712) 662-7131	February 17, 2006	7:00 p.m.	See Ida, Carroll or Buena Vista
Scott	County Extension Office in Bettendorf	(563) 359-7577	January 17, 2006	7:00 p.m.	See Clinton, Cedar or Muscatine
Shelby	St. Mary's Parish Hall, Portsmouth	(712) 755-3104	January 25, 2006	1:30 p.m.	See Crawford or E. Pott
Sioux	TePaske Theater, Sioux Center H.S.	(712) 737-4230	February 8, 2006	1:30 p.m.	See Lyon or Plymouth
Story	County Extension office in Nevada	(515) 382-6551	January 30, 2006	1:30 p.m.	See Boone or Marion
Wapello	Eddyville-Blakesburg High School	(641) 682-5491	January 23, 2006	7:00 p.m.	See Keokuk, Jefferson or Davis
Washington	Super 8 Motel, Washington	(319) 653-4811	February 16, 2006	7:00 p.m.	See Johnson, Keokuk or Louisa
Wayne	Courthouse in Corydon	(641) 872-1755	January 20, 2006	1:30 p.m.	See Davis
Webster	County Extension Office in Fort Dodge	(515) 576-2119	February 6, 2006	1:30 p.m.	See Calhoun, Humboldt or Hamilton
Winnebago	Branding Iron, Thompson	(641) 584-2261	February 8, 2006	1:00 p.m.	See Kossuth or Hancock
Woodbury	Correctionville Community Center	(712) 279-2157	February 7, 2006	1:30 p.m.	See Plymouth or Monona
Wright	Convention Center, Dows	(515) 532-3453	February 8, 2006	9:30 a.m.	See Franklin, Hamilton or Humboldt
Wright	County Extension Office in Clarion	(515) 532-3453	February 24, 2006 This meeting will focus on dry manure issues and will be 3 hours to serve commercial applicators as well.	9:00 a.m.	See Franklin, Hamilton or Humboldt

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Iowa Manure Matters: Odor and Nutrient Management Newsletter Survey Winter 2005



We value your opinion and want to know what you think about the *Odor and Nutrient Management* newsletter. In addition, we would like to know about your manure management practices to better identify our readers' needs. Please take a few moments to complete this survey. When completed, fold on the dotted lines, tape it shut and return it. The postage is prepaid. Please return by January 31, 2006. Or you can complete the survey on our Web site at: <http://www.extension.iastate.edu/Pages/communications/EPC/>

1. Please rate the quality of the newsletter on the following items.

Enter the number that best reflects your opinion.

1 – Strongly Disagree to 5 – Strongly Agree

- The information is timely.
- The information is useful.
- The text is easy to read.
- The information improved my ability to make management decisions.

2. What is your primary occupation?

- Farmer
- Farm manager
- Livestock production manager
- Ag chem/fertilizer dealer
- NRCS employee
- County supervisor
- Crop consultant
- Manure plan writer
- Research/extension specialist/county extension employee
- Commercial manure applicator
- Veterinarian
- Technical Service Provider
- Other (specify) _____

3. Does *Odor and Nutrient Management* contain information not available to you elsewhere?

- Yes No

4. Did you change any fertility management practice, manure management practice or employ odor control technologies as a result of information in *Odor and Nutrient Management*?

(Check all that apply).

- Odor management
- Manure application rates
- Application technology
- Implement regulatory requirements
- Nutrient management practices
- Substitution of manure for commercial fertilizer
- Other (specify) _____

5. Estimate a dollar value for the savings or profit made because of these changes:

6. Do you use some type of feeding management practice to reduce nutrients excreted in manure? (Check all that apply).

- Feeding phytase to reduce dietary total phosphorus content
- Phase feeding
- Split-sex feeding
- Feeding synthetic amino acids to reduce dietary crude protein
- Following NRC dietary requirements
- Formulating diet to meet degradable/undegradable ruminant protein requirements
- Other (specify) _____

7. As a livestock producer, do you use any of the following practices or strategies to reduce odors or emissions from your livestock facility? (Check all that apply).

- Synthetic pit covers
- Bio-pit covers
- Vegetation/landscaping
- Biofilters
- Pit additives
- Feed management
- Inject/incorporate manure
- Other (specify) _____

8. What type of information do you think would be most beneficial to your operation/business? (Check all that apply).

- Air quality best management practices demonstrations
- Manure equipment calibration demonstration
- Open feedlot solids setting demonstration
- Alternative technology for manure use (i.e. methane generation, composting) Workshop
- RUSLE2/P Index Workshop
- How to develop a manure management plan workshop
- Water quality workshop
- Technical Service Provider training session
- Field trial comparison of manure vs. commercial fertilizer use
- Other (specify) _____

9. What is your preferred method of receiving information?

(Check all that apply).

- Field demonstrations/field days/tours
- Newsletters
- E-mails
- Fact sheets
- Workshops
- Trade magazines
- Web

10. What is your overall opinion of the *Odor and Nutrient Management* newsletter? We value your opinion and want to know what you think about the *Odor and Nutrient Management* newsletter.



(CAFO Determinations continued from front page)

CAFOs cannot have a discharge of any type without a NPDES permit, which specifies when a discharge is allowed.

A number of open feedlot operations have attempted to avoid the CAFO determination by decreasing the animal numbers in the open feedlot to less than 1,000 head and adding feeding capacity in confinement. The open feedlot law passed in the 2005 legislative session, House File 805, states that animal capacity for confinement feeding operation shall not be combined with animal capacity of open feedlot operations when determining if the operation is a CAFO. This is in direct conflict with EPA's CAFO regulations (effective April 14, 2003) that combine open feedlot and confinement structures housing the same type of livestock. The recent court ruling on the EPA CAFO regulations has no bearing on determining when an operation is a CAFO.

A little history may help explain how this conflict developed. Laws for the state of Iowa have made a clear distinction between confinement facilities and open feedlot facilities. The type of animals housed in those facilities does not make any difference. Conversely EPA does not distinguish housing type, but combines all animal capacity of the same animal type. So, under regulations effective April 14, 2003, EPA would combine the capacity of open feedlots and confinements if the animal type were the same—that is all beef cattle would be combined or all swine would be combined, but beef cattle and swine would not be combined. The state's rules combine all animals housed in the same type of facility; so cattle and hogs all raised in confinement would be added together, or all animals in open feedlots would be combined together, but there is no combining animal capacity of open feedlots with animal capacity in confinements.

House File 805 states: "In calculating the animal unit capacity of an open feedlot operation, the animal unit capacity shall not include the animal unit capacity of any confinement feeding operation building . . . which is part of the open feedlot operation." However producers do need to be aware that EPA does make CAFO visits in the state and may take enforcement action against producers who don't meet the federal regulations. EPA enforces the federal regulations and state-issued NPDES permits.

Livestock producers who have both confinement and open feedlot facilities need to be aware of the difference in state and federal requirements. They need to assess their operation and determine if their operation would be a

CAFO by federal standards. If the operation is a CAFO, they should assess their risk of being visited by EPA and penalized for non-compliance with federal regulations. If a producer is uncertain of whether his or her operation is a CAFO, IDNR should be contacted to help with the assessment. If the operation is a CAFO, the producer should obtain a NPDES permit and follow the guidance in the permit to be in compliance.



DNR Schedules Tests for Manure Applicators

by Karen Grimes, Iowa Department of Natural Resources

The Iowa Department of Natural Resources (DNR) offers tests as an alternative to training for both commercial and confinement site manure applicators. Applicators who choose testing instead of training will also be charged a \$25 education fee when they take the test.

For confinement site applicators who have missed one or more training sessions in a three-year certification cycle, the tests are not an option. They are required. A make-up test is substituted for the missed training, and must be taken prior to renewing certification. At this time, there is no education fee charged for make-up tests.

The DNR will notify any confinement site applicators who must take a make-up test.

After a confinement site applicator has passed the make-up test, the applicator can choose between another test or annual training to renew the certificate. There are many advantages to choosing the training where information on animal feeding operation management and rules is updated each year.

If planning to take a test, please reserve a spot by calling the appropriate DNR field office, because limited space is available at most test sites.

Applicants should bring a photo identification card, pencil and calculator to the test site.

(schedule continued on back page)

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 Ames, Iowa 50011-3171

Iowa Manure Matters: Odor and Nutrient Management



The following DNR testing locations and times have been scheduled:

Region	Date	Time	Location	Field Office Phone Number
Northeast	January 13 or January 27	9 a.m. to 12 noon	DNR Field Office 909 West Main, Suite 4 Manchester	(563) 927-2640
North Central	January 11 or January 12	9 a.m. to 12 noon	DNR Field Office 2300 15th St. SW Mason City	(641) 424-4073
Northwest	January 20	1 to 3 p.m.	Iowa Lakes Community College Gateway North Mall 1900 Grand Ave Spencer	(712) 262-4177
Northwest	February 13	1 to 3 p.m.	Iowa State University Extension 110 West 4th St., Suite 100 Spencer	(712) 262-7177
Southwest	January 31 or February 1	1 to 3 p.m.	DNR Field Office 1401 Sunnyside Lane Atlantic	(712) 243-1934
South Central	January 24 or February 21	2 to 4 p.m.	DNR Field Office 401 SW 7th St, Suite I Des Moines	(515) 725-0268
Southeast	January 10 or February 15	10 a.m. to 12 noon	DNR Field Office 1023 W. Madison Washington	(319) 653-2135

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... and justice for all

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For more information, contact Jeff Prier or Jennifer Christian at the Spencer DNR Field Office at (712) 262-4177.