

2021 Commercial Manure Applicator Certification Evaluation							Total Responses	723
		Excellent	Good	Fair	Poor	No Response	Total Responses	
1. DNR Commercial Rules		313	374	32	1	3	723	
Percentage		43%	52%	4%	0%	0%		
		Excellent	Good	Fair	Poor	No Response	Total Responses	
2. Land Application and Separation Distances		322	366	30	2	3	723	
Percentage		45%	51%	4%	0%	0%		
		Excellent	Good	Fair	Poor	No Response	Total Responses	
3. Manure Available Nitrogen & Appl Rate Determination		276	371	63	8	5	723	
Percentage		38%	51%	9%	1%	1%		
		Excellent	Good	Fair	Poor	No Response	Total Responses	
4. MRTN & Yield Goal: Mngt & Water Quality Considerations		266	372	64	14	7	723	
Percentage		37%	51%	9%	2%	1%		
		Excellent	Good	Fair	Poor	No Response	Total Responses	
5. Fertility Mngt & Water Quality		274	344	73	22	10	723	
Percentage		38%	48%	10%	3%	1%		
		Excellent	Good	Fair	Poor	No Response	Total Responses	
6. Manure Economics Activity		261	381	56	10	15	723	
Percentage		36%	53%	8%	1%	2%		
		Excellent	Good	Fair	Poor	No Response	Total Responses	
7. What is a Water Source		292	360	42	3	26	536	
Percentage		40%	50%	6%	0%	4%		
		Excellent	Good	Fair	Poor	No Response	Total Responses	
<b>Section 2 - Overall Evaluation</b>		Agree	Undecided	Disagree	Does Not Apply	No Response	Total Responses	
8. The information presented today was useful to me as a commercial manure service employee?		536	117	38	16	16	723	
Percentage		74%	16%	5%	2%	2%		
		Agree	Undecided	Disagree	Does Not Apply	No Response	Total Responses	
9. The presenters were prepared and knowledgeable.		624	74	10	4	11	723	
Percentage		86%	10%	1%	1%	2%		
<b>Section 3- Discussion Topics   Biosecurity Activity</b>		Yes	No	No Response	Does Not Apply		Total Responses	
10. Because of training, you have a better understanding of the nitrogen cycle and why it's important to wait until the soil is 50 degrees or cooler to apply manure.		609	61	12	41		723	
Percentage		84%	8%	2%	6%			
		Yes	No	No Response	Does Not Apply		Total Responses	
11. Because of past training and learning, did you verify manure distribution from manifolds across the tool bars?		517	90	22	94		723	
Percentage		72%	12%	3%	13%			
		Very Likely	Likely	Not Likely	Very Not Likely	No Response	Not Applicable	Total Responses
12. If no, how likely are you to verify manure distribution across toolbars before the 2021 Fall application season?		128	138	56	10	254	137	723
Percentage		18%	19%	8%	1%	35%	19%	

	Yes	No	No Response			Not Applicable	Total Responses
<b>13. Because of training, you can identify what is a water source.</b>	680	22	12			9	723
Percentage	94%	3%	2%			1%	
	Yes	No	No Response			Not Applicable	Total Responses
<b>14. Because of training, you can identify where to measure water source setbacks.</b>	676	22	15			10	723
Percentage	93%	3%	2%			1%	
	Yes	No	No Response			Not Applicable	Total Responses
<b>15. The nutrient reduction strategy details practices like cover crops, reduced tillage, and nutrient management to reduce nitrogen and phosphorus losses to rivers, streams, and lakes by 45%. Has the strategy changed what your customers expect from you during manure application?</b>	388	184	39			112	723
	54%	25%	5%			15%	

#### 16. Is there a topic you would like to hear about during next year's training?

Actual manure application sections, Do a topic on digital records like Iowa Select Farms has.  
agitation  
Antonio was hard to understand  
calibration on equipment  
Compaction effect on yield - should I dragline vs tanks because of compaction?; Why are there differences between deep pit manure and outside lagoon manure? Does the sun and temperature changes effect the manure  
Compaction, Tank vs Dragline, Calibration  
Comparisons of application equipment. Knife vs coultter vs covering disc - pros and cons, advantages and disadvantages  
cost and practice  
Could not understand the one presenter at all  
Could not understand the speaker on fertility management and water quality  
couldn't understand Antonio Mallarino  
covered all topics  
current nitrogen stabilizers  
Dead zone in the Gulf of Mexico  
Different and new types of rate controllers, About agitation, hauling safety, how other custom haulers operate, different types of tool bars, new styles of equipment, less about the cost of fertilizer that's farms deal...we put on what MMP tells us to don't make that!  
Different distributor options, cover crops?  
Divide it. Drivers don't need that much information,  
DOT weight rules  
Dragline turn arounds. Compare a direct u-turn vs. overlapping to reach the edge of field and completely cover the field.  
Dry manure pile placement and pile conditions/management  
Effects on organic matter - manure, nitrogen needed, effect from manure  
equipment, importance of stir pumps  
Explain graphs in more detail, provide a more detailed legend  
focus more on applicators  
Good job!  
good topics and speakers  
good topics today; economics - what about extra fertility from yield goal application  
guys that have done this class for 20 years should only have to go every 3 years  
Harvest lab  
Have presenters that are easy to understand. Need topics that apply to manure applicators.  
How not to gas pigs or yourself.  
How to be efficient in pumping, using bigger pumps and hoses to maximize gallons moved per hour to get more sleep per day and be safer.  
If there is a spill what is the best way of stopping it?  
ISU guy could not understand  
It seems to be more geared toward a farmer. More about day to day operation on applying manure. I was disappointed in the information.  
keep up with new info  
Lagoon agitation - boats vs lagoon pumps, different boats on the market, how do they compare? Pit agitation - new barns, some have agitation built in versus agitation. Slurry stores with agitators built in vs over the wall pumps. Self contained vs tractors in job performance. Stop talking about money - employees don't need that information.  
Legal side of the business as far as money collections from customers.  
Legal tank weight and widths on roads and regulations in NE Iowa. 7,300 gals or 10,500 gals  
Legal tank weight on road and widths in Northeast Iowa.  
Leon Sheets  
less nutrient studies, we just apply manure  
Lighting requirements - can we be too bright? Health & safety: as we sit in tractors for extended periods of time and eating & drinking habits, are we at increased risks of strokes and other health issues? If so, what are ways to mitigate risk (water, exercise, stretching)  
Lots of information was not relevant to a CMS employee  
Low disturbance injection vs. doing more tillage work with the applicator  
maintain equipment  
manifolds  
Manure nitrogen stabilizers - worth it or not; side-dressing with manure  
Manure rate selection - should not be applicators problem to know how much to put on for his farm  
More about hauling in semi tanks  
More about pumping and less about the farming side  
More about safety/equipment safety, equipment maintenance. Sounds like we need to find a cost effective way to get phosphorus out of manure to be able to ship it elsewhere.  
More comparison of N available, also P & K, S  
More economics on manure hauling. Survey of custom manure rates. Is the dead spot in the Gulf of Mexico growing.  
More equipment  
More incident pictures and clean up procedures. Less numbers and application equations. More actual application equipment and methods. More dry litter transportation and DOT regulations.  
more information for applicators  
More information on application practices - ideas vs. practicality  
more on bedded pack or solid manure  
More on commercial pumping, less on what the farmer does  
More on cost to haul liquid manure  
More on custom manure applicators job. What they do. Most of class doesn't pertain to the operators. Need more videos on manure equipment and how to run it. DNR Rules are good. Lot of good information for farmer, but not so much for the custom operators.  
More on manure application and equipment used.  
more on tankers and drag hose  
More pictures and videos of custom operators applying manure to see how they do it.  
More real manure application

more safety on hydrogen sulfide gases  
More videos on applying manure would be ideal  
Most of it does not apply to us  
Need technology - sidedressing manual in standing corn  
new equipment technology  
No - all good  
no, but less on the soil sampling part  
No, everything was covered.  
no, it's good enough  
no, you do a good job covering it.  
nope, all topics were covered  
nore on new equipment or new ideas  
Pit foam remedies  
pit gas  
Program was geared toward nutrient management. I understand the importance of this topic. However, as a first time attendant, I would have liked to see more topics related to manure application such as safety, proper procedures, gas management practices, etc. Thank you.  
proper agitation and pit stirring  
Put in place a class for transporting manure as three hours is tedious. I haul it, I don't spread it.  
Review of tool bar application in no-till - which leaves the most residue after application?  
Rules hauling dry for stock piling  
safety  
Segment on new or farmers hauling for pay - not to mud up roads and highways, making us who are conscious of not doing this look bad.  
Setbacks - show an overall view to show field layouts from water sources  
should be no longer than an hour. The value of manure isn't important to applicators  
sidedressing liquid manure in row crop  
soil sampling and process of nutrients consumption by crop do on pertain to CMS recertification  
Soil test guy was very hard to understand  
something that pertains to us a CMS  
speakers hard to understand  
swine pit gas  
Thanks, you did great!  
The ability to change rates on hog manure throughout the field. Problems to ID on sites, fields, equipment. Routes/right of ways that tanks take.  
They were hard to understand - not good English  
This training should be shorter. 1/2 the information provided has little to do with actual manure application. I feel like they just talk to fill the 3 hours.  
This was better than previous years  
tillage equipment  
topics are getting long - have more topics  
Trucking manure with semis  
true cost to haul  
Type of tillage on ?  
Variable rate manure systems for swine; strip till with manure  
very good presentation  
Very good presentation  
Video could be shortened because of some repetition which is not necessary  
Video is very well done  
videos of new equipment used for application  
water source  
water spreading from lagoons  
We don't care how much nitrogen we are putting on - the farmer does, not the people that haul it  
We don't need to know anything about manure values. We haul the manure and put on the rate the farmer tells us to.  
what to do during a spill  
Would like to see more about pumping manure.  
would like to see some videos of new applications or different types of cultures would be really interesting.  
You guys covered everything well  
Your corn yields are off, we are trying to grow 250 bu/acre