



## MANURE APPLICATION CHECKLIST

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Manure is a valuable fertilizer source for crop production as it provides major macronutrients (nitrogen, phosphorus, potassium) and micronutrients (zinc, iron, manganese, etc.). In addition, manure increases soil organic matter which leads to better soil structure and water holding capacity while giving a boost to beneficial soil microbes and earthworms.

When applying manure, it is important to remember to work safely and avoid cutting corners. Besides general machinery safety, there are many additional hazards that manure may pose. As you work to apply manure before the ground freezes, keep this safety checklist in mind for agitation, pumping, transportation, and application.

<b>Agitation and Pumping Potential Hazards</b>	<b>Yes</b>	<b>Needs Correction</b>	<b>Date Corrected or Notes</b>
Are livestock and personnel removed from the manure basin area where they might inhale dangerous gases?	<input type="checkbox"/>	<input type="checkbox"/>	
Is the pit or basin well-ventilated?	<input type="checkbox"/>	<input type="checkbox"/>	
Have you disconnected any electrical equipment near the pit or basin that may cause a spark?	<input type="checkbox"/>	<input type="checkbox"/>	
Do you have the proper personal protective equipment (self-contained breathing apparatus and harness with lifeline) on hand in case you need to enter the pit or basin?	<input type="checkbox"/>	<input type="checkbox"/>	
Do you have an Emergency Response Plan with updated phone numbers and contacts?	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Transportation and Application Potential Hazards</b>	<b>Yes</b>	<b>Needs Correction</b>	<b>Date Corrected or Notes</b>
Are all signal and brake lights working properly on equipment for road transportation?	<input type="checkbox"/>	<input type="checkbox"/>	
Have you and other personnel been trained in biosecurity to prevent spread of livestock diseases between farms?	<input type="checkbox"/>	<input type="checkbox"/>	
Do you understand the rules regarding setbacks and applying near sensitive areas?	<input type="checkbox"/>	<input type="checkbox"/>	
Do you know what to do and who to contact in case of a manure spill?	<input type="checkbox"/>	<input type="checkbox"/>	

Name of person completing safety check: \_\_\_\_\_ Date completed: \_\_\_\_/\_\_\_\_/\_\_\_\_

**SEE THE NEXT PAGE FOR ADDITIONAL RESOURCES**



# FARM SAFETY CHECK



## MANURE APPLICATION

Additional Hazards	Yes	Needs Correction	Date Corrected or Notes
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

## ADDITIONAL RESOURCES

Farm Safety Check: Manure Gas  
 Upper Midwest Agricultural Safety and Health Center  
<http://umash.umn.edu/farm-safety-check-manure-gas/>

Rules and regulations for land application of manure  
 Minnesota Pollution Control Agency  
<https://www.pca.state.mn.us/quick-links/land-application-manure>

Manure spill prevention and management  
 University of Minnesota Extension  
<https://extension.umn.edu/manure-safety/manure-spill-prevention-and-management>

Safety considerations for manure handling  
 University of Wisconsin Extension  
<https://learningstore.uwex.edu/Assets/pdfs/A3675.pdf>

Emergency Response Plan  
 Minnesota Pollution Control Agency  
<https://www.pca.state.mn.us/sites/default/files/wq-f3-12.doc>

*The facts and information provided are suggestions for your safety, but are in no way a comprehensive and exhaustive list of all actions needed to insure your safety, and are not an endorsement of any products mentioned.*

For additional Farm Safety Check topics and resources, visit: <http://umash.umn.edu/umash-farm-safety-check/>

To receive Farm Safety Check topics via email, join the UMASH email list at <http://umash.umn.edu/join-our-email-list>

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 umash.umn.edu