



## Section 7 - Manure and Runoff Handling

Use this section to think through the methods you currently use for managing your manure and runoff water and to explore options that you might want to consider.

- [What you need for this section](#)
- [On-Site Feedlot Evaluation: Manure and Runoff collection from open lot systems](#)
- [On-Site Feedlot Evaluation: Manure and Runoff collection from confinement barns](#)
- [On-Site Feedlot Evaluation: Storage area for manure and wasted water](#)
- [Manure Management worksheet](#)
- [Diagram of runoff collection from open lot](#)
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  - [Collection Process](#)
  - [Storage and Treatment Process](#)
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### What you need for this section:

This document Read [on-screen](#) or [download pdf file](#)

Pdf files are opened with Adobe Acrobat Reader. Use them if you want to print the form and fill in by hand.

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### Manure and runoff collection from open lot systems

1. I collect manure from feedlot areas:

daily  weekly  monthly  every 4-6 months  annually

2. I maintain pens so that they will have a smooth surface with a slope of:

0%  1-3%  3-5%  > 5%

3. I sprinkle the pens in dry weather to reduce dust:

mobile sprinkler  fenceline sprinkler  no sprinkler system

4. I change stocking density to control moisture content of the pen surface and reduce odor and dust problems:

often  occasionally  never

5. The area where most of my runoff comes from is:

paved open lots  
 unpaved open lots  
 roofs or covered lots  
 unknown

### **Manure collection from indoor confinement barns**

1. I clean manure from pens or livestock areas:

daily  weekly  monthly  every 4-6 months  annually

2. I use the following method to clean the livestock areas:

manual scrape  pull plug & pressure wash  
 flush tank  pressure wash  
 shallow pits with pull plugs

3. I store manure and wash water in the following area :

stacking area  storage Pond  natural low area  no containment

### **Storage area for manure and wasted water**

1. I store manure and wasted water on site before disposal/use:

< 6 months  6-12 months  more than a year  not at all

2. I put the manure stockpile areas and manure storage structures in the following places to minimize odor and water quality concerns:

over a deep water table  on heavy soils  
 away from watercourses  above the 100-year flood plain  
 at least 150 ft. downstream from any water well

3. I inspect manure stockpiles and manure storage structures for runoff and seepage problems:

monthly  annually  never  unsure how to inspect

4. I have a liner in my manure storage pond or other manure storage structure:

compacted soil  bentonite clay  plastic  concrete  no liner

5. I have a plan in case excessive rain or runoff overloads my storage pond:

yes  no

6. My manure storage pond or structure has the capacity to contain rain or runoff from a 25-year, 24-hour storm:

usually  probably  unsure

7. I remove solids that accumulate in my storage pond or structure:

annually  every 2-5 years  never

8. I use the liquid in the manure storage structure to:

irrigate crops  sprinkle feedlots  let it evaporate

9. I intend to improve the following aspects of my manure management:

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## Manure Management Worksheet

Facility Name: \_\_\_\_\_

Date: \_\_\_\_\_

Location: \_\_\_\_\_

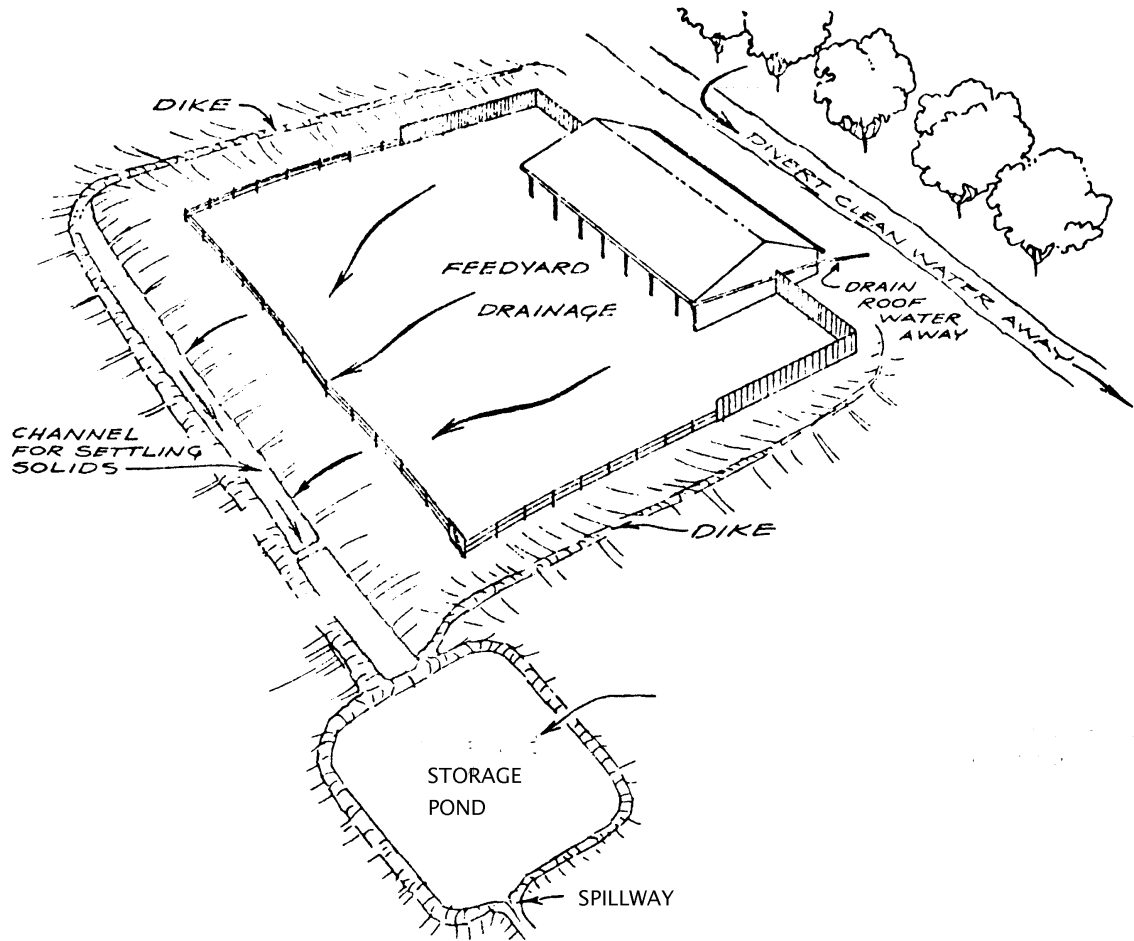
Prepared by: \_\_\_\_\_

Waste Management Functions	Type of Material	
	Manure / Solids	Slurry / Liquids
<p style="text-align: center;"><b>Source(s)</b></p> <p>(Describe where material is generated &amp; any practices done to minimize volume.)</p>		
<p style="text-align: center;"><b>Collection</b></p> <p>(Describe method &amp; frequency for collecting each material.)</p>		
<p style="text-align: center;"><b>Transfer</b></p> <p>(Describe how material is moved from collection area to treatment/storage facility.)</p>		
<p style="text-align: center;"><b>Treatment</b></p> <p>(Describe manure treatment practices, if any.)</p>		
<p style="text-align: center;"><b>Storage</b></p> <p>(Describe storage period &amp; facility type, if any.)</p>		
<p style="text-align: center;"><b>Transfer</b></p> <p>(Describe how material is moved from storage or treatment areas.)</p>		
<p style="text-align: center;"><b>Utilization</b></p> <p>(Describe method &amp; location for disposition of each material.)</p>		

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## Diagram of runoff collection from open lot



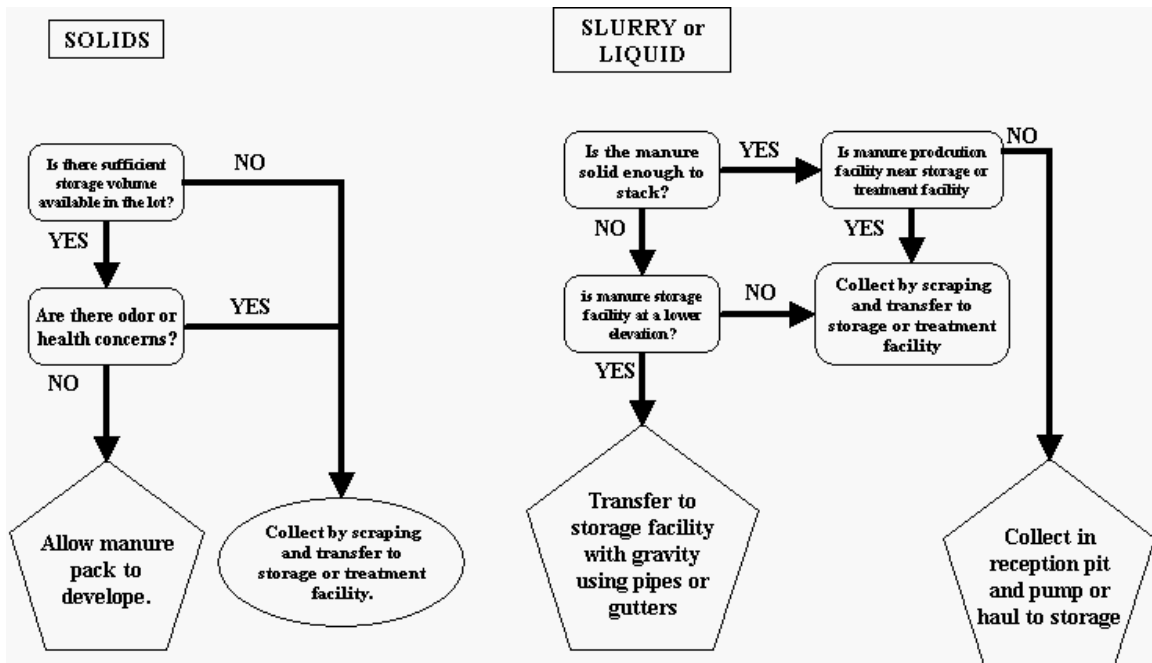
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# Manure Management Flow Chart

## Collection Process

Highlight your current practices. Note those options that you'd like more information about, and make plans to discuss those options with an engineer.



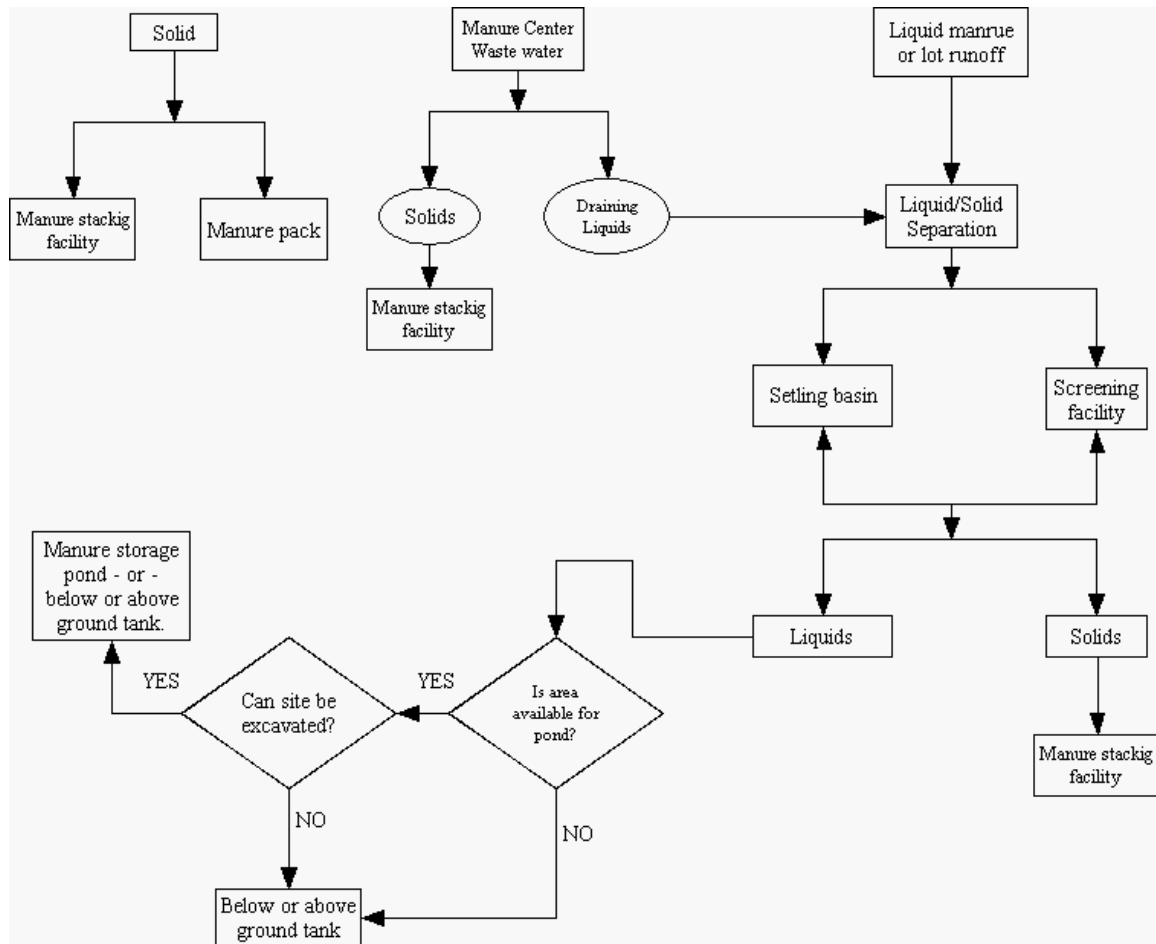
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# Manure Management Flow Chart

## Storage and Treatment Process

Highlight your current practices. Note those options that you'd like more information about, and make plans to discuss those options with an engineer.

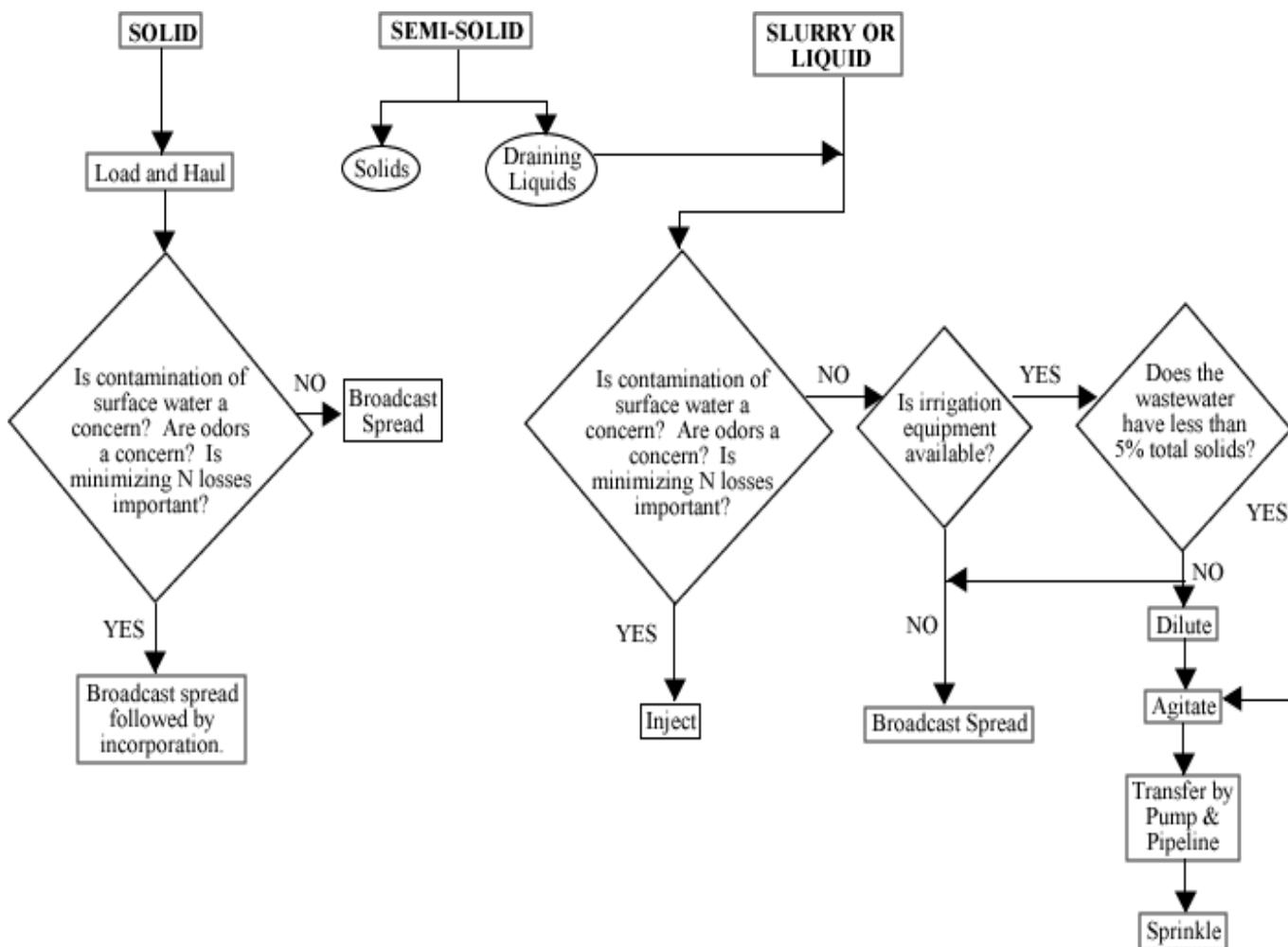


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# Manure Management Flow Chart

## Land Application Process



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