

APPENDIX A

Environmental Stewardship Assessment: Sizing Considerations

Issue	High Risk Risk 4	High to Moderate Risk Risk 3	Moderate to Low Risk Risk 2	Low Risk Risk 1
Existing storage				
Is sufficient storage volume available until suitable land, climatic conditions, or labor/ equipment availability allows application?	Manure is often spread at an undesirable time of yr (frozen or snow-covered soil conditions) or at undesirable rates on any available land due to a full storage.	Manure is occasionally spread at an undesirable time of yr (frozen or snow-covered soil conditions) or at undesirable rates on any available land due to a full storage.		Sufficient volume exists to allow spreading of manure based on a plan for nutrient utilization that minimizes nutrient runoff.
New storage				
Sizing procedure includes...				
a. Sufficient volume for	< 3 months	3-6 months	6-11 months	At least 1 yr
b. Allowance for permanent pool (anaerobic lagoon only)?	Designed below ASAE, NRCS, or state standards for anaerobic lagoon permanent pool volume.		Designed according to ASAE, NRCS, or state standards for anaerobic lagoon permanent pool volume.	Designed at double ASAE or NRCS standards for anaerobic lagoon permanent pool volume, reducing odor.
c. Allowance for depth?	None above maximum level for start pumping (spillway included)?	< 1 ft	1 ft	At least 1 ft
d. Allowance for depth above maximum level for start pumping (no spillway)?	None	1 ft (uncovered storage)		At least 1 ft + rainfall from 25-yr, 24-hr storm (uncovered storage) OR At least 1 ft (covered storage)
e. Allowance for sludge (anaerobic lagoon) or solids accumulation below barn pits and storage basin)?	No			Yes
f. Allowance for storage of runoff from open lots, roof water, or other contributing drainage area?	None	Allowance for runoff < a 25-yr, 24-hr storm	Allowance for runoff from a 25-yr, 24-hr storm OR Extended chronic wet period (wettest yr in 10 yrs)	No contributing drainage area OR Allowance for runoff from a 25-yr, 24-hr storm AND Chronic wet period (wettest yr in 10 yrs)
Manure storage level indicator				
Manure level is indicated by				
a. Start pumping marker?	No	Yes but not clearly visible		Yes, marker is clearly visible
b. Stop pumping marker (for permanent pool in lagoon and wet seal maintenance in earthen basin)?	No	Yes but not clearly visible		Yes, marker is clearly visible
c. Depth or “% of Full” marker?	No	Yes but not clearly visible		Yes, marker is clearly visible