

Instructions

Holding Pond (Animal Waste)

NE-ENG-67

Instructions for use of NE-ENG-67

Items 1 through 14 should be completed prior to surveying the site. Table and page references are in the Animal Waste Management Field Handbook.

1. Total drainage area that will drain into the holding pond.
2. 1 AU = 1000 lbs. of animal mass. This is not necessarily the number of cattle. Example: two 500-lb. cattle = 1 AU.
3. What is the longest period of time the pond will not be emptied? For all new facilities, Nebraska regulations say that 180 days will be the minimum.
4. During what months will the pond not be emptied? Use these months on NE-ENG-81 to figure 4C, 7D, and 9C on this form.
5. This is an average sediment and manure delivery rate that assumes the solids will be carried to the bottom of the lot by water.
6. & 7. If the facility is an earthen lot draining into the holding pond, the liquid portion of manure will infiltrate or evaporate. In this case, the value in the blank will be zero.
8. Total liquid waste stored during the maximum length of storage.
- 9.* Minimum value of runoff storage according to Nebraska DEQ regulations (in/acre).
- 10.* Minimum storage runoff required by Nebraska DEQ regulations.
- 11.* Enter information from form NE-ENG-81, items (6) and (7C) for the runoff values.
- 12.* Enter information from form NE-ENG-81, items (8) and (9C) for the runoff values. If the open lot is a combination of paved and unpaved, use a weighted runoff value.
- 13.* Total runoff storage in the pond. Use larger number, (10) or (13) in equation (14).
14. Total runoff of solids, liquid waste, and from rainfall.
15. After the site has been surveyed, size the pond and determine depth needed to store (14).
16. The depth of the pond will be adjusted to reflect evaporation and monthly precipitation during the storage months, a 25-yr. rainfall, and freeboard.

** If there is a large part of the drainage area that is not in the feedlot, the designer may wish to analyze runoff from both areas to develop a composite runoff value.*

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."