

Instructions

Debris Basin for Animal Waste System **NE-ENG-9**

Instructions for use of NE-ENG-9

1. If there is "other contributing area" that can be diverted from the lot, it will be more economical to build the debris basin and there will be less solids and liquids to dispose of.
 - a) It shouldn't be assumed that this is the only manure that will need to be hauled.
 - b) If it is the intention to scrape the manure into the basin, it might be worth it to pave or harden in some other way the channel bottom to facilitate removal.
2. The 0.5 in. used in this calculation assumes that the manure is detached by rainfall and transported by rainfall runoff to the debris basin. If manure or soil is significantly moved toward the debris basin by any process other than rainfall, this calculation may not provide adequate storage.
3. Can be found in either columns (6) or (8) of NE-ENG-81.

If the lots are part paved and unpaved, use a weighted average to obtain (4).

4. Can be found in either columns (6) or (8) of form NE-ENG-81.
5. Total volume of runoff for a 25-yr. storm:

"A 24-hr. drawdown" requires that no more than .037 cfs/ac. in. of runoff be allowed to flow through the outlet pipe.

"A 24-hr. drawdown" will result in 89 percent of the volume of runoff from (5) being stored by the debris basin.

If a holding pond or a lagoon is built in conjunction with the debris basin, excess excavation can be used to build the diversion.

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