

The proper disposal of animal waste is a challenge for every horse operation. Many stable owners consider the waste from stalls to be a nuisance because it attracts flies and is unsightly. Because of this perception, stable waste (manure plus bedding) has been improperly disposed of in remote areas on the farm such as gullies, wood edges and over the hillside. This method of disposal poses significant environmental risks due to runoff and leaching of nutrients from the manure that may contaminate ground and surface water. The Water Quality Improvement Act of 1998 requires Maryland horse operations to address the proper disposal and utilization of stable waste.

Stable waste can be handled in two ways:

1) Remove from the premises

Removal may be an added expense to the operation. However, the cost can usually be passed on with small increases in boarding or other fees. Removal of waste from the farm can be accomplished through various avenues. Neighbors may be willing to pick up small amounts in the spring and fall for gardens, but this method is not always reliable. There are companies that will come to your facility and remove waste for a fee, such as a manure removal firm, excavating contractor or landscaper. Some enterprises will issue "roll off" boxes that can be filled with stable waste and later removed for a fee. Removal services range in price from \$4.00/cu. yd. to \$15.00/cu. yd. Proper storage of stable waste is essential to protect water quality. NOTE: A 1000 lb. horse stabled 50% of the time will produce 1-2 cu. ft. per day of stable waste. That's 1-2 cu. yds/month. These volumes may vary between barns due to the type of horse and bedding used, time of year and the management of the stable.

2) Spread on pasture, hay or crop fields

Spreading stable waste on the land does not meet every ones needs. There must be enough acreage to accommodate the waste and the application rate must meet the recommendations of an approved nutrient management plan.

Application of raw stable waste to land also has disadvantages:

- Stable waste may contain a variety of internal parasites, bacteria and viruses that can reinfect the herd when applied to pastures or hay fields.
- Spreading waste should only be done in the fall and spring. Making numerous trips over fields throughout the year causes soil compaction. Compaction reduces water infiltration and retards the growth of pasture and hay grasses.

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What to do: Try composting your horse manure!

Composting is a biological process where microorganisms convert organic materials such as manure, leaves, sawdust, straw, and paper into a soil like material called compost.

There are advantages to composting your stable waste:

- 1) Volume reduction composting reduces the volume of stable waste by 40-60%.
- 2) Composting is environmentally friendly. It converts nutrients into a form that is more readily available for plant uptake.
- 3) Compost adds organic matter to the soil; improving soil fertility and moisture retention and increasing the yield potential of pasture and hay grasses.
- 4) Compost is a value added product and has many different uses. It can be spread over pasture and hay fields to improve grass production, used in the garden or in landscaping.

For helpful information on composting:

1) On-Farm Composting Handbook

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Cooperative Extension 607-255-7654 (phone) 152 Riley-Robb Hall 607-254-8770 (fax)

Ithaca, NY 14853-5701 E-mail NRAES@CORNELL.EDU

mailto:NRAES@CORNELL.EDU

2) Bio-Cycle

Journal of Composting & Recycling

419 State Avenue

Emmaus, PA 18049 610-967-4135 (phone) A publication of JG Press Inc. www.Biocycle.net

http://www.Biocycle.net

3) The Compost Council

114 South Pitt Street

Alexandria, VA 22314 703-739-2401(phone) E-mail:comcouncil@aol.com 703-739-2407(fax)

4) Local Soil Conservation Districts and Cooperative Extension Service offices

For more information on horse manure management and other soil conservation and water quality practices, contact you local Soil Conservation District. For more information contact your local Soil Conservation District/ Natural Resources Conservation Service/ (SCD/ NRCS) office or county Maryland Cooperative Extension (MCE) office. Addresses and phone numbers can be found at http://www.mda.nrcs.usda.gov/contact/directory or http://www.mda.nrcs.usda.gov/contact/directory or http://www.md.nrcs.usda.gov/contact/directory or <a href="http://www.md.nrcs.usda.gov/contact/directory or <a href="http://www.md.nrcs.usda.gov/contact/directory or <a href="http://www.md.nrcs.usda.gov/contact/directory