

Manure (Poultry)

DESCRIPTION

Digested food matter rich in nitrogen, phosphorous and potassium. Moisture content, solids size and the presence of bedding influence the equipment needed for handling, treating and transporting. *Liquid* manure contains up to 4 percent solids, *slurry* has 4-10 percent solids, *semi-solid* has 10-20 percent solids and *solid* manure has greater than 20 percent solids. Nutrient values are related to solids concentrations. In general, the higher the solids concentration, the higher the nutrient concentration. Poultry manure has considerably lower concentrations of nitrogen, phosphorous and potassium than dairy manure.

CLASSIFICATION

Manures

SOURCE INDUSTRY

Poultry farming. See the [Meat Products industry roadmap](#).

ANNUAL VOLUME GENERATED IN WISCONSIN

1,376,050 wet tons

CURRENT APPLICATIONS

Land spread, anaerobic digestion, aerobic digestion/composting, dryings (solids used as feed)

PRICE/TON

\$0.50/wet ton (based on \$0.22, \$0.22, and \$0.14 price per pound for N, P₂O₅ and K₂O respectively)¹

HAULING COST

\$0.01/gallon, plus a charge of \$0.00013/gallon/mile for distances greater than 1 mile²

APPLICABLE BIOREFINING PROCESSES

[Aerobic digestion/composting](#), [anaerobic digestion](#), [biomass gasification](#), [combustion](#), [thermochemical liquefaction](#), [vitrification](#)

REFERENCES

¹ Reetz, H. F. Jr. and G. D. Schnitkey. 2002. "Economics of Nutrient Systems and Sources," Better Crops, 86(2): 10-13. [www.ppi-far.org/ppiweb/bcrops.nsf/\\$webindex/4144C1CDD13C0C8B85256BDB00487280/\\$file/02-2p10.pdf](http://www.ppi-far.org/ppiweb/bcrops.nsf/$webindex/4144C1CDD13C0C8B85256BDB00487280/$file/02-2p10.pdf) (14 May 2004).

² Brenneman, Greg. 1995. "You Can't Afford Not to Haul Manure," Livestock Industry Facilities & Environment (LIFE), February. Iowa State University, University Extension, Ames, IA. www.extension.iastate.edu/Publications/PM1609.pdf (14 May 2004).

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National Agriculture Statistics Service. US Department of Agriculture. www.usda.gov/nass/ (8 April 2004)