



The Potash Development Association

Organic Manures

**Animal manures and other sources
of Phosphate, Potash and Magnesium**

A guide to the total and available
phosphate, potash and magnesium
contents of some manures.

for nitrogen contents and full details see the data source:
Fertiliser Manual (RB209), June 2010.

available from:

The Stationery Office, www.tsoshop.co.uk, ISBN 9787-0-11-243286-9

or to download at:

www.defra.gov.uk/foodfarm/landmanage/land-soil/nutrient/nmu01.htm

Potash Development Association,

PO Box 697, York YO32 5WP.

Tel & fax 01904 492009

info@pda.org.uk

www.pda.org.uk

Typical phosphate, potash and magnesium contents in some animal and other organic manures. These can be used as default contents in the absence of actual measured or declared values.

	DM	Total nutrients			Available nutrients ⁽¹⁾	
		Phosphate P ₂ O ₅	Potash K ₂ O	Magnesium MgO	Phosphate P ₂ O ₅	Potash K ₂ O
Fresh FYM⁽²⁾	%	kg/t			kg/t	
Cattle	25	3.2	8.0	1.8	1.9	7.2
Pig	25	6.0	8.0	1.8	3.6	7.2
Slurries	%	kg/m ³			kg/m ³	
Cattle ⁽³⁾	6	1.2	3.2	0.6	0.6	2.9
Pig ⁽³⁾	4	1.8	2.4	0.7	0.9	2.2
Separated slurries (liquid)	%	kg/m ³			kg/m ³	
Strainer box (cattle)	1.5	0.3	2.2	ND	0.15	2.0
Weeping wall (cattle)	3	0.5	3.0	ND	0.25	2.7
Mechanical separator (cattle)	4	1.2	3.5	ND	0.60	3.2
Pig	3	1.6	2.4	ND	0.8	2.2
Separated slurries (solid)	%	kg/t			kg/t	
Cattle	20	2.0	4.0	ND	1.0	3.6
Pig	20	4.6	2.2	ND	2.3	2.0
Poultry manures	%	kg/t			kg/t	
Layer manure	35	14	9.5	2.6	8.4	8.6
Broiler/turkey litter	60	25	18	4.4	15.0	16.2
Biosolids	%	kg/t or kg/m ³			kg/t or kg/m ³	
Digested liquid	4	3.0	0.1	0.3	1.5	0.1
Digested cake	25	18	0.6	1.6	9.0	0.5
Thermally dried	95	70	2.0	6.0	35	1.8
Lime stabilised	40	26	0.8	2.4	13	0.7
Composted	60	6.0	3.0	2.0	3.0	2.7
Composts	%	kg/t			kg/t	
Green	60	3.0	5.5	3.4	1.5	4.4
Green/food	60	3.8	8.0	3.4	1.9	6.4
Wastes	%	kg/t			kg/t	
Paper crumble (chemically/physically treated)	40	0.4	0.2	1.4	ND	ND
(biologically treated)	30	3.8	0.4	1.0	ND	ND
Mushroom compost	35	5.0	9.0	ND	ND	ND
Water treatment cake	25	3.4	0.4	0.8	ND	ND
Food industry (general)	5	0.7	0.2	ND	ND	ND

(1) Nutrients available to the next crop (kg/tonne of product, not %).

(2) Potash values will be lower if FYM is stored in the open for long periods.

(3) Adjust nutrient contents if % DM is higher or lower.

DM = Dry matter. ND = No data.

To convert kg/t to units/ton, multiply by 2.

To convert kg/m³ to units/1000 gallons, multiply by 9.