



# Nutrient Contents of Manures

**Table 1 Typical nutrient content of animal manures**

	DM %	Total Nutrients			Available Nutrients <sup>(1)</sup>		
		Nitrogen	Phosphate	Potash	Nitrogen	Phosphate	Potash
<b>Fresh FYM <sup>(2)</sup></b>			<b>kg/t</b>			<b>kg/t</b>	
Cattle	25	6.0	3.5	8.0	See Table 2	2.1	7.2
Pig	25	7.0	7.0	5.0	Table 2	4.2	4.5
<b>Poultry Manures</b>			<b>kg/t</b>			<b>kg/t</b>	
Layer manure	30	16.0	13.0	9.0	See Table 2	7.8	8.1
Broiler/turkey litter	60	30.0	25.0	18.0	Table 2	15.0	16.0
<b>Slurries</b>			<b>kg/m<sup>3</sup></b>			<b>kg/m<sup>3</sup></b>	
Dairy <sup>(3)</sup>	6	3.0	1.2	3.5	See Table 2	0.6	3.2
Beef <sup>(3)</sup>	6	2.3	1.2	2.7	Table 2	0.6	2.4
Pig <sup>(3)</sup>	4	4.0	2.0	2.5		1.0	2.3
<b>Separated cattle slurries (liquid)</b>			<b>kg/m<sup>3</sup></b>			<b>kg/m<sup>3</sup></b>	
Strainer box	1.5	1.5	0.3	2.2	See Table 2	0.15	2.0
Weeping wall	3	2.0	0.5	3.0	Table 2	0.25	2.7
Mechanical separator	4	3.0	1.2	3.5		0.60	3.2

(1) Nutrients that are available to the next crop

(2) Nitrogen and potash values will be lower if FYM is stored in the open or for long periods

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

## Imperial Conversions

Multiply kg/m<sup>3</sup> by 9 to give units/1000 gals

Multiply kg/t by 2 to give units/ton

**Table 2 Percentage of total nitrogen available to the next crop following applications of animal manures (% of total nitrogen)**

Timing		Autumn ( Aug-Oct)		Winter (Nov-Jan)		Spring (Feb-Apr)	Summer use on grassland
Soil type	DM (%)	Sandy/ shallow	Medium/ heavy	Sandy/ shallow	Medium/ heavy	All soils	All soils
<b>Surface application</b>							
Fresh FYM	25	5	10	10	15	20	n/a
Layer manure	30	10	20	15	30	35	n/a
Broiler/turkey litter	60	10	20	15	25	30	n/a
Dairy/beef slurries	6	5	15	20	30	35	20
Pig slurries	4	5	20	25	40	50	30
Separated slurries	1-4	5	20	25	40	50	35
<b>Soil incorporation</b>							
Fresh FYM	25	5	10	15	20	25	n/a
Layer manure	30	10	25	20	40	50	n/a
Broiler/turkey litter	60	10	25	20	40	45	n/a
Dairy/beef slurries	6	5	20	20	35	45	n/a
Pig slurry	4	5	20	20	45	55	n/a
Separated slurries	1-4	5	20	25	45	55	n/a

Source: MAFF Fertiliser Recommendations for Agricultural & Horticultural Crops (RB209) seventh edition  
Available from: The Stationery Office, Publications Centre Tel. 0870 600 5522



Potash Development Association,  
PO Box 697, York YO32 5WP.

**Tel & fax 01904 492009**

**email: [info@pda.org.uk](mailto:info@pda.org.uk) Website: [www.pda.org.uk](http://www.pda.org.uk)**