



Typical Green Waste Analysis

ANALYSIS REPORT ~ COMPOSTED MATERIAL (Metric Units)

Sample Reference :

Sample Matrix : COMPOST

Laboratory References	
Report Number	
Sample Number	

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Date Received	
Date Reported	30-SEP-2016

ANALYTICAL RESULTS

Determinand on a DM basis unless otherwise indicated	Units	Result	Amount per fresh tonne	Amount applied at an equivalent total Nitrogen application of 250 kg N/ha	Units
pH		8.74			
Oven Dry Matter	%	75.7	757.00	24752	kg DM
Total Nitrogen	% w/w	1.01	7.65	250	kg N
Water Soluble Ammon-N 1:5	mg/kg	404	0.31	10.00	kg NH4-N
Water Soluble Nitrate-N 1:5	mg/kg	<1	< 0.01		kg NO3-N
Total Phosphorus (P)	% w/w	0.272	4.72	154.18	kg P2O5
Total Potassium (K)	% w/w	0.892	8.10	264.95	kg K2O
Total Magnesium (Mg)	% w/w	0.348	4.37	142.99	kg MgO
Total Sulphur (S)	% w/w	0.151	2.86	93.44	kg SO3
Total Copper (Cu)	mg/kg	45.5	0.03	1.13	kg Cu
Total Zinc (Zn)	mg/kg	162	0.12	4.01	kg Zn
Total Sodium (Na)	% w/w	0.043	0.33	10.64	kg Na
Total Calcium (Ca)	mg/kg	42531	32.20	1052.75	kg Ca
Equivalent field application rate		—	1.00	32.70	tonnes/ha

Released by Darren Whitbread

Date 30/09/16

How does your sample analysis compare with the 'standard' figures for organic manures?

Farmyard Manure	Dry Matter (% DM)	Total Nitrogen (Kg N/t)	Ammonium Nitrogen (Kg NH4-N/t)	Nitrate Nitrogen (Kg NO3-N/t)	Total Phosphate (Kg P2O5/t)	Total Potash (Kg K2O/t)	Total Sulphur (Kg SO3/t)	Total Magnesium (Kg MgO/t)
Cattle FYM - 'fresh'	25	6.0	1.2	0.0	3.2	8.0	2.4	1.8
Cattle FYM - 'old'	25	6.0	0.5	0.1	3.2	8.0	2.4	1.8
Pig FYM - 'fresh'	25	7.0	1.8	0.0	6.0	8.0	3.4	1.8
Pig FYM - 'old'	25	7.0	0.9	0.1	6.0	8.0	3.4	1.8
Sheep FYM - 'fresh'	25	7.0	1.4	0.0	3.2	8.0	3.0	1.6
Sheep FYM - 'old'	25	7.0	0.6	0.1	3.2	8.0	3.0	1.6
Duck FYM - 'fresh'	25	6.5	1.6	0.0	5.5	7.5	2.6	1.2
Duck FYM - 'old'	25	6.5	0.9	0.1	5.5	7.5	2.6	1.2
Horse FYM	30	7.0	0.6	0.1	5.0	6.0	ND	ND
Goat FYM	25	6.0	0.5	0.1	3.2	8.0	2.4	1.8

Notes: ND = no data. The 'standard' phosphate & potash availability figures to the next crop grown from Defra's Fertiliser Manual are 60% & 90% respectively.

Poultry Manure	Dry Matter (% DM)	Total Nitrogen (Kg N/t)	Ammonium Nitrogen (Kg NH4-N/t)	Uric Acid Nitrogen (Kg uric acid-N/t)	Nitrate Nitrogen (Kg NO3-N/t)	Total Phosphate (Kg P2O5/t)	Total Potash (Kg K2O/t)	Total Sulphur (Kg SO3/t)	Total Magnesium (Kg MgO/t)
Layer manure	35	19.0	5.6	3.7	0.2	14.0	9.5	4.0	2.6
Broiler/turkey litter	60	30.0	6.2	4.1	0.2	25.0	18.0	8.0	4.4

Notes: The 'standard' phosphate & potash availability figures to the next crop grown from Defra's Fertiliser Manual are 60% & 90% respectively.

Cattle & Pig Slurries	Dry Matter (% DM)	Total Nitrogen (Kg N/m ³)	Ammonium Nitrogen (Kg NH4-N/m ³)	Total Phosphate (Kg P2O5/m ³)	Total Potash (Kg K2O/m ³)	Total Sulphur (Kg SO3/m ³)	Total Magnesium (Kg MgO/m ³)
Cattle slurry	6	2.6	1.2	1.2	3.2	0.7	0.6
Dirty water (from cattle)	0.5	0.5	0.3	0.1	1.0	0.1	0.1
Separated cattle slurries							
- strainer box liquid	1.5	1.5	0.8	0.3	2.2	ND	ND
- weeping wall liquid	3	2.0	1.0	0.5	3.0	ND	ND
- mechanically separated liquid	4	3.0	1.5	1.2	3.5	ND	ND
- solid portion after separation	20	4.0*	1.0*	2.0*	4.0*	ND	ND
Pig slurry	4	3.6	2.5	1.8	2.4	1.0	0.7
Separated pig slurry - liquid	3	3.6	2.2	1.6	2.4	ND	ND
Separated pig slurry - solid	20	5.0*	1.3*	4.6*	2.2*	ND	ND

Notes: * These values are kg per tonne. ND = no data.

The 'standard' phosphate & potash availability figures to the next crop grown from Defra's Fertiliser Manual are 50% & 90% respectively (50% & 100% for dirty water).

Biosolids	Dry Matter (% DM)	Total Nitrogen (Kg N/t)	Ammonium Nitrogen (Kg NH4-N/t)	Total Phosphate (Kg P2O5/t)	Total Potash (Kg K2O/t)	Total Sulphur (Kg SO3/t)	Total Magnesium (Kg MgO/t)
Digested liquid	4	2.0*	0.8*	3.0*	0.1*	1.0*	0.3*
Digested cake	25	11.0	1.6	18.0	0.6	6.0	1.6
Thermally dried	95	40.0	2.0	70.0	2.0	23.0	6.0
Lime stabilised	40	8.5	0.9	26.0	0.8	8.5	2.4
Composted	60	11.0	0.6	6.0	3.0	2.6	2.0

Notes: * These values are kg per m³. The 'standard' phosphate & potash availability figures to the next crop grown from Defra's Fertiliser Manual are 50% & 90% respectively.

Other Organic Manures	Dry Matter (% DM)	Total Nitrogen (Kg N/t)	Ammonium Nitrogen (Kg NH4-N/t)	Total Phosphate (Kg P2O5/t)	Total Potash (Kg K2O/t)	Total Sulphur (Kg SO3/t)	Total Magnesium (Kg MgO/t)
Composts							
Green compost	60	7.5	0.1	3.0	5.5	2.6	3.4
Green/food compost	60	11.0	0.6	3.8	8.0	3.4	3.4
Mushroom compost	35	6.0	0.2	5.0	9.0	ND	ND
Paper Crumble							
Chemically / physically treated	40	2.0	0.2	0.4	0.2	0.6	1.4
Biologically treated	30	7.5	0.8	3.8	0.4	2.4	1.0
Water Treatment Cake							
Water treatment cake	25	2.4	0.1	3.4	0.4	5.5	0.8
Food industry 'wastes'							
Dairy waste	4	1.0	0.1	0.8	0.2	ND	ND
Soft drinks waste	4	0.3	ND	0.2	Trace	ND	ND
Brewing waste	7	2.0	ND	0.8	0.2	ND	ND
General food waste	5	1.6	0.1	0.7	0.2	ND	ND

Notes: ND = no data

The 'standard' figures for the above organic manures have been taken from Defra's Fertiliser Manual 2010 (RB209) 8th edition and the corresponding PLANET version 3 software. Further information on fertiliser recommendations for organic manures can be obtained from the Fertiliser Manual or from a FACTS qualified adviser.