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PART A

Farmyard manure (FYM) – Percentage of nitrogen available to next crop following FYM applications (all crops and all soil types).

Table 4

Percentage of Nitrogen available to next crop

<i>FYM type</i>	<i>Manure Reference Number</i>	<i>Total N (kg/t)</i>	<i>Dry Matter %</i>	<i>% N available to following crop</i>
Cattle FYM	1	6	25	10
Separated solids from cattle slurry	2	4	20	10
Pig FYM	3	7	25	10
Separated solids from pig slurry	4	5	20	10
Sheep FYM	5	7	25	10
Duck FYM	6	6.5	25	10
Horse FYM	7	7	30	10

PART B

Poultry manure – Percentage of nitrogen available to next crop following Poultry Manure applications (use the value in brackets for grassland and winter oilseed rape cropping).

*These values assume incorporation by ploughing. Cultivation using discs or tines is likely to be less effective in minimising ammonia losses and intermediate values of nitrogen availability should be used.					Autumn		Winter		Spring	Summer use on Grassland
Manure Type	Manure Reference Number	Incorporation time*	Total N (kg/t)	Dry Matter %	August–October Sands Sandy Loams Shallow	All other soils	November–January Sands Sandy Loams Shallow		February–April All Soils	All Soils
Layer manure	8	Over 24 hrs	19	35	20	25 (30)	25	25	35	35

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Manure Type	Manure Reference Number	Incorporation time*	Total N (kg/t)	Dry Matter %	August–October Sandy Loams Shallow	All other soils	November–January Sandy Loams Shallow	All other soils	February–April All Soils	All Soils
Layer manure	9	Within 24 hrs	19	35	20	25 (30)	25	40	50	N/A
Broiler/ Turkey litter	10	Over 24 hrs	30	60	20	35 (40)	20	25	30	30
Broiler/ Turkey litter	11	Within 24 hrs	30	60	20	30 (35)	20	30	40	N/A

PART C

Cattle, Dirty Water and Pig Slurry – Percentage of nitrogen available to next crop following Cattle Slurry, Dirty Water and Pig Slurry applications (use the value in brackets for grassland and winter oilseed rape cropping).

					Autumn		Winter		Spring	Summer use on Grassland
Manure Type	Dry Matter %	Ref No.	Incorporation time/ method	Total N (kg/t)	August–October Sandy Loams Shallow	All other soils	November–January Sandy Loams Shallow	All other soils	Feb – April All Soils	
Cattle slurry – Surface applied	2	12	Not incorporated	1.6	20	30 (35)	30	30	45	30
Cattle slurry – Surface applied	6	13	Not incorporated	2.6	20	25 (30)	25	25	35	25
Cattle slurry	10	14	Not incorporated	3.6	20	20 (25)	20	20	20	20

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					August– October Sandy Loams Shallow	All other soils	November– January Sandy Loams Shallow	All other soils	Feb – April All Soils	
– Surface applied										
Cattle slurry	2	15	Within 6 hrs	1.6	20	35 (40)	25	35	50	N/A
– ploughed in										
Cattle slurry	6	16	Within 6 hrs	2.6	20	30 (35)	20	30	40	N/A
– ploughed in										
Cattle slurry	10	17	Within 6 hrs	3.6	20	25 (30)	20	25	30	N/A
– ploughed in										
Cattle slurry	2	18	Band- spread	1.6	20	30 (35)	30	30	50	40
– Band- spread										
Cattle slurry	6	19	Band- spread	2.6	20	25 (30)	25	25	40	30
– Band- spread										
Cattle slurry	10	20	Band- spread	3.6	20	20 (25)	20	20	30	25
– Band- spread										
Cattle slurry	2	21	Shallow injected	1.6	20	30 (35)	35	35	55	45
– shallow injected										
Cattle slurry	6	22	Shallow injected	2.6	20	25 (30)	30	30	45	35

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Manure Type	Dry Matter %	Ref No.	Incorporation time/ method	Total N (kg/t)	Autumn		Winter		Spring	Summer use on Grassland
					August– October Sands Sandy Loams Shallow	All other soils	November– January Sands Sandy Loams Shallow	All other soils	Feb – April All Soils	
– shallow injected										
Cattle slurry	10	23	Shallow injected	3.6	20	20 (25)	25	25	35	30
– shallow injected										
Separated – Strainer box	2	24		1.5						
Separated – Weeping wall	2	25	Select from above	3	*Use the appropriate values for 2% dry matter cattle slurry					
Separated – Mechanical	2	26		4						
Dirty Water	0.5	27	Not incorporated	0.5	20	35 (40)	35	35	50	30
Pig slurry	2	28	Not incorporated	3.0	25	35 (40)	40	35	55	55
– surface applied										
Pig slurry	4	29	Not incorporated	3.6	25	30 (35)	35	30	50	50
– surface applied										
Pig slurry	6	30	Not incorporated	4.4	25	25 (30)	30	30	45	45
– surface applied										
Pig slurry	2	31	Within 6 hrs	3.0	25	45 (50)	30	45	65	N/A

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					August–October Sandy Loams Shallow	All other soils	November–January Sandy Loams Shallow	All other soils	Feb – April All Soils	
ploughed in										
Pig slurry	4	32	Within 6 hrs	3.6	25	40 (45)	2540	45	60	N/A
– ploughed in										
Pig slurry	6	33	Within 6 hrs	4.4	25	40 (45)	2540	40	55	N/A
– ploughed in										
Pig slurry	2	34	Band-spread	3.0	25	35 (40)	4040	40	60	60
– Band-spread										
Pig slurry	4	35	Band-spread	3.6	25	35 (40)	3535	35	55	55
– Band-spread										
Pig slurry	6	36	Band-spread	4.4	25	30 (35)	3530	35	50	50
– Band-spread										
Pig slurry	2	37	Shallow injected	3.0	25	40 (45)	454040	45	65	65
– shallow injected										
Pig slurry	4	38	Shallow injected	3.6	25	35 (40)	4035	40	60	60
– shallow injected										
Pig slurry	6	39	Shallow injected	4.4	25	35 (40)	4035	34	55	55
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Manure Type	Dry Matter %	Ref No.	Incorporation time/method	Total N (kg/t)	Autumn		Winter		Spring	Summer use on Grassland
					August–October	All Sandy Loams Shallow	November–January	All Sandy Loams Shallow	Feb – April	All Soils
shallow injected										
Mechanical separator	40	Select from above	3.6	**Use the appropriate value for 2% dry matter pig slurry						

Table 5

Percentage nitrogen content taken up by a crop per given quantity of livestock manure

Column 1 Type of livestock manure	Column 2 Percentage content of nitrogen taken up by crop until and including 31 December 2011	Column 3 Percentage content of nitrogen taken up by crop on and from 1st January 2012
Cattle slurry	20%	35%
Pig slurry	25%	45%
Poultry manure or litter	20%	30%
Solid manure	10%	10%