

Digestate Information Sheets No.8 – Available Nutrient Value (£) of Liquid and Solid Digestate Applied at Different Rates



The monetary benefit of digestate is calculated by comparing the nutrient density of the digestate with the equivalent nutrient cost of inorganic fertiliser. Tables 1 and 2 provide the value of actual liquid and solid digestate compared to the current value (June 2020) of Ammonium Nitrate (£224/tonne), Triple Super Phosphate (267/tonne) and Muriate of Potash (£276/tonne).

Table 1

Liquid digestate fertilisers	Application Rate (m ³ /Ha)	Application Rate (gallons/acre)	Value of Available Nutrients in year of application				
			N (£/ha)	P ₂ O ₅ (£/ha)	K ₂ O (£/ha)	Total (£/ha)	Total (£/acre)
Digestate 1 (whole)	15	1,350	£37.98	£16.98	£14.28	£69.24	£28.02
	25	2,200	£63.30	£28.30	£23.81	£115.41	£46.70
	35	3,100	£88.63	£39.61	£33.33	£161.57	£65.39
Digestate 1 (Separated liquid)	15	1,350	£33.11	£15.67	£20.49	£69.28	£28.04
	25	2,200	£55.19	£26.12	£34.16	£115.46	£46.73
	35	3,100	£77.26	£36.57	£47.82	£161.65	£65.42
Digestate 2 (Whole)	15	1,350	£28.73	£7.40	£3.73	£39.86	£16.13
	25	2,200	£47.88	£12.33	£6.21	£66.43	£26.88
	35	3,100	£67.04	£17.27	£8.69	£93.00	£37.64
Industrial digestate (whole)	15	1,350	£26.30	£8.49	£31.30	£66.08	£26.74
	25	2,200	£43.83	£14.15	£52.16	£110.14	£44.57
	35	3,100	£61.36	£19.81	£73.03	£154.19	£62.40
Farm-based digestate (whole)	15	1,350	£18.99	£7.40	£31.05	£57.44	£23.25
	25	2,200	£31.65	£12.33	£51.75	£95.74	£38.74
	35	3,100	£44.31	£17.27	£72.45	£134.03	£54.24

Table 2

Solid Digestate fertilisers	Application Rate (tonnes/Ha)	Application Rate (tonnes/acre)	Value of Available Nutrients in year of application				
			N (£/ha)	P ₂ O ₅ (£/ha)	K ₂ O (£/ha)	Total (£/ha)	Total (£/acre)
Digestate 2 (separated fibre)	15	6	£13.89	£17.41	£11.36	£42.67	£17.27
	25	10	£23.15	£29.02	£18.94	£71.11	£28.78
	35	14	£32.41	£40.63	£26.52	£99.55	£40.29
Digestate 3 (Separated fibre)	15	6	£10.52	£18.72	£14.90	£44.14	£17.86
	25	10	£17.53	£31.20	£24.84	£73.57	£29.77
	35	14	£24.54	£43.68	£34.78	£103.00	£41.68
Digestate 4 (Seperated fibre)	15	6	£17.57	£10.88	£9.50	£37.95	£15.36
	25	10	£29.28	£18.14	£15.84	£63.26	£25.60
	35	14	£41.00	£25.39	£22.17	£88.56	£35.84
Digestate 5 (Seperated fibre)	15	6	£14.78	£27.73	£10.37	£52.88	£21.40
	25	10	£24.64	£46.22	£17.28	£88.14	£35.67
	35	14	£34.50	£64.70	£24.20	£123.40	£49.94
Industrial (Seperated fibre)	15	6	£40.90	£5.62	£11.61	£58.13	£23.53
	25	10	£68.17	£9.36	£19.35	£96.89	£39.21
	35	14	£95.44	£13.10	£27.10	£135.64	£54.89