Effect of digestate age on the efficiency of dairy manure digestate disintegration

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Content

This file contains tables and figures which were not suitable for the main article due to place and number restrictions.

Table S.1: The results of Tukey's-test compared the different digestate ages on the US disintegration efficiency per applied specific energy. Significant *p*-values are depicted in bold.

Difference	sCOD-3000	TAN-3000	TAN-18000	sPROT-300	sCARB-300	sCARB-900	sCARB-180	pH-3000	pH-6000	pH-15000
Dig22-Dig15	**0.024**	0.723	0.076	N.D.	0.279	0.055	**0.004**	**0.042**	**0.008**	0.880
Dig29-Dig15	**0.025**	0.225	0.906	1.000	**0.009**	0.998	**0.020**	0.302	0.068	0.379
Dig36-Dig15	0.467	0.866	0.906	0.631	0.509	0.992	**0.000**	0.168	**0.029**	0.078
Dig43-Dig15	**0.023**	**0.008**	1.000	0.237	0.178	0.928	**0.001**	**0.009**	**0.008**	0.561
Dig29-Dig22	1.000	0.858	**0.020**	N.D.	0.232	0.088	0.780	0.676	0.648	0.103
Dig36-Dig22	0.311	0.998	**0.031**	N.D.	**0.024**	0.107	0.503	0.884	0.912	**0.019**
Dig43-Dig22	1.000	0.053	0.065	N.D.	0.997	**0.016**	0.942	0.861	1.000	0.174
Dig36-Dig29	0.319	0.713	0.998	0.614	**0.001**	1.000	0.108	0.993	0.980	0.799
Dig43-Dig29	1.000	0.228	0.936	0.149	0.354	0.807	0.383	0.218	0.651	0.996
Dig43-Dig36	0.305	**0.034**	0.987	**0.029**	**0.015**	0.744	0.888	0.380	0.914	0.607

N.D.: Not Determined

Table S.2: The data used for the prediction of the sCOD after ultrasonication (i.e. sCODus) of dairy manure digestate.

sCODus	SE	sCOD0	TS	VS	TAN	sKJN	sPROT	tCARB	sCARB	TA	pH
0.00	0	16.96	7.49	5.64	2.43	3.28	5.32	7.73	1.16	8.84	7.54
2.48	3000	16.96	7.49	5.64	2.43	3.28	5.32	7.73	1.16	8.84	7.54
4.90	6000	16.96	7.49	5.64	2.43	3.28	5.32	7.73	1.16	8.84	7.54
6.16	9000	16.96	7.49	5.64	2.43	3.28	5.32	7.73	1.16	8.84	7.54
8.51	12000	16.96	7.49	5.64	2.43	3.28	5.32	7.73	1.16	8.84	7.54
9.65	15000	16.96	7.49	5.64	2.43	3.28	5.32	7.73	1.16	8.84	7.54
11.75	18000	16.96	7.49	5.64	2.43	3.28	5.32	7.73	1.16	8.84	7.54
0.00	0	15.10	7.06	5.29	2.30	2.57	1.71	5.08	1.69	8.08	7.86
6.25	3000	15.10	7.06	5.29	2.30	2.57	1.71	5.08	1.69	8.08	7.86
6.11	6000	15.10	7.06	5.29	2.30	2.57	1.71	5.08	1.69	8.08	7.86
7.95	9000	15.10	7.06	5.29	2.30	2.57	1.71	5.08	1.69	8.08	7.86
8.78	12000	15.10	7.06	5.29	2.30	2.57	1.71	5.08	1.69	8.08	7.86
7.95	15000	15.10	7.06	5.29	2.30	2.57	1.71	5.08	1.69	8.08	7.86
9.68	18000	15.10	7.06	5.29	2.30	2.57	1.71	5.08	1.69	8.08	7.86
0.00	0	11.95	6.38	4.53	2.20	2.94	4.59	5.73	0.54	8.58	7.83
6.93	3334	11.95	6.38	4.53	2.20	2.94	4.59	5.73	0.54	8.58	7.83
7.91	6668	11.95	6.38	4.53	2.20	2.94	4.59	5.73	0.54	8.58	7.83
9.51	10002	11.95	6.38	4.53	2.20	2.94	4.59	5.73	0.54	8.58	7.83
12.57	13335	11.95	6.38	4.53	2.20	2.94	4.59	5.73	0.54	8.58	7.83
11.70	16669	11.95	6.38	4.53	2.20	2.94	4.59	5.73	0.54	8.58	7.83
11.49	20003	11.95	6.38	4.53	2.20	2.94	4.59	5.73	0.54	8.58	7.83
0.00	0	12.28	6.38	4.53	2.19	2.76	3.51	5.53	1.20	8.55	7.85
4.34	3102	12.28	6.38	4.53	2.19	2.76	3.51	5.53	1.20	8.55	7.85
6.48	6204	12.28	6.38	4.53	2.19	2.76	3.51	5.53	1.20	8.55	7.85
8.38	9306	12.28	6.38	4.53	2.19	2.76	3.51	5.53	1.20	8.55	7.85
10.59	12408	12.28	6.38	4.53	2.19	2.76	3.51	5.53	1.20	8.55	7.85
10.58	15511	12.28	6.38	4.53	2.19	2.76	3.51	5.53	1.20	8.55	7.85
10.49	18613	12.28	6.38	4.53	2.19	2.76	3.51	5.53	1.20	8.55	7.85
0.00	0	12.33	6.68	4.48	1.81	2.84	6.84	5.17	1.03	7.93	8.41
5.79	2771	12.33	6.68	4.48	1.81	2.84	6.84	5.17	1.03	7.93	8.41
6.66	5542	12.33	6.68	4.48	1.81	2.84	6.84	5.17	1.03	7.93	8.41
10.37	8313	12.33	6.68	4.48	1.81	2.84	6.84	5.17	1.03	7.93	8.41
10.99	11084	12.33	6.68	4.48	1.81	2.84	6.84	5.17	1.03	7.93	8.41
9.19	13855	12.33	6.68	4.48	1.81	2.84	6.84	5.17	1.03	7.93	8.41
11.16	16626	12.33	6.68	4.48	1.81	2.84	6.84	5.17	1.03	7.93	8.41