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Supplement of

Uncertainty in regional estimates of capacity for carbon capture and storage

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Table 1 - Data used for calculation of storage capacity

Storage unit	Surface area / m ²	Thickness / m	Volume * / m ³	N:G	Porosity	Storage volume / Mt CO ₂
Burns Sandstone Member			1.51E+12	0.75	0.18	2650
Burns Sandstone Member			9.15E+11	0.5	0.23	1368
Burns Sandstone Member	2.25E+09	435		0.8	0.24	2443
Burns Sandstone Member	2.03E+09	885		0.85	0.15	2969
Burns Sandstone Member	1.80E+09	400		0.7	0.15	983
Burns Sandstone Member	2.03E+09	43		0.7	0.15	119
Burns Sandstone Member	2.70E+09	876		0.7	0.25	5381
Burns Sandstone Member	1.37E+09	150		1	0.23	612
Beatrice Formation	2.70E+09	30		0.5	0.16	84
Beatrice Formation	1.80E+09	54		0.8	0.15	152
Beatrice Formation			1.30E+11	0.71	0.16	192
Beatrice Formation	1.80E+09	48		0.87	0.16	156
Beatrice Formation	1.60E+09	30		0.7	0.16	70
Beatrice Formation	1.81E+09	45		0.71	0.16	120
Beatrice Formation	2.70E+09	48		0.71	0.16	191
Beatrice Formation	2.03E+09	48		0.77	0.16	156
Beatrice Formation	1.35E+09	48		0.63	0.16	85
Beatrice Formation			9.93E+10	0.65	0.13	109
Beatrice Formation	1.80E+09	10		1	0.16	39
Orrin Formation	1.35E+09	43		0.7	0.14	74
Orrin Formation	1.24E+09	58		0.7	0.13	85
Orrin Formation	1.24E+09	53		0.96	0.175	143
Orrin Formation			5.75E+11	0.75	0.14	785
Orrin Formation	1.13E+09	58		0.75	0.15	95
Orrin Formation	1.13E+09	40		0.75	0.15	66
Orrin Formation	1.28E+09	60		0.75	0.15	112
Orrin Formation	1.13E+09	51		0.75	0.14	79
Orrin Formation	1.35E+09	54		0.78	0.15	111
Orrin Formation	1.24E+09	53		0.96	0.175	143
Orrin Formation	2.09E+09	54		0.75	0.14	154
Orrin Formation			6.90E+10	0.75	0.14	94
Orrin Formation	1.13E+09	8		1	0.15	17
Mains Formation	4.95E+09	40		0.4	0.15	154
Mains Formation			1.89E+11	0.58	0.15	214
Mains Formation	3.83E+09	40		0.6	0.15	179
Mains Formation	4.05E+09	30		0.4	0.15	95
Mains Formation	3.98E+09	40		0.65	0.15	202
Mains Formation	4.73E+09	40		0.58	0.15	214
Mains Formation	4.05E+09	40		0.61	0.15	193
Mains Formation	3.96E+09	40		0.45	0.15	139
Mains Formation			1.60E+11	0.68	0.15	212
Mains Formation	4.05E+09	31		1	0.15	248
Hopeman Sandstone Fm	3.04E+09	75		0.7	0.22	456

Hopeman Sandstone Fm	1.80E+09	79		1	0.16	296
Hopeman Sandstone Fm			2.79E+11	0.95	0.1	345
Hopeman Sandstone Fm	1.80E+09	80		0.99	0.07	130
Hopeman Sandstone Fm	1.58E+09	40		1	0.15	123
Hopeman Sandstone Fm	1.80E+09	80		1	0.15	281
Hopeman Sandstone Fm	3.04E+09	78		0.99	0.12	366
Hopeman Sandstone Fm	1.80E+09	79		0.99	0.07	128
Hopeman Sandstone Fm	1.80E+09	79		1	0.16	296
Hopeman Sandstone Fm	1.62E+09	79		0.98	0.15	245
Hopeman Sandstone Fm	1.58E+09	79		0.99	0.12	192
Hopeman Sandstone Fm	1.70E+09	22.86		1	0.225	114
Findhorn Formation	4.39E+09	612		0.8	0.13	3630
Findhorn Formation	1.80E+09	590		0.9	0.23	2858
Findhorn Formation	1.80E+09	600		0.99	0.075	1042
Findhorn Formation			1.55E+12	0.74	0.15	2237
Findhorn Formation	1.58E+09	366.5		0.5	0.15	563
Findhorn Formation	1.68E+09	400		0.98	0.1633	1398
Findhorn Formation	1.78E+09	452		0.98	0.075	769
Findhorn Formation	2.36E+09	452		0.94	0.15	1955
Findhorn Formation	1.58E+09	452		0.98	0.15	1360
Findhorn Formation	1.80E+09	600		0.99	0.075	1042
Findhorn Formation	1.87E+09	415		0.5	0.23	1159
Findhorn Formation	1.80E+09	487.68		1	0.225	2568
Strath Rory Formation	2.70E+09	369.5		0.8	0.08	830
Strath Rory Formation	1.62E+09	400		0.5	0.15	632
Strath Rory Formation	1.80E+09	600		0.99	0.075	1042
Strath Rory Formation			1.63E+11	0.9	0.08	153
Strath Rory Formation	1.69E+09	576		0.25	0.17	537
Strath Rory Formation	1.35E+09	350		0.9	0.07	387
Strath Rory Formation	1.54E+09	500		0.48	0.1	481
Strath Rory Formation	2.36E+09	687		0.9	0.08	1518
Strath Rory Formation	2.03E+09	687		0.39	0.17	1199
Strath Rory Formation	1.58E+09	250		0.99	0.15	760
Strath Rory Formation	1.58E+09	686		0.88	0.08	989
Strath Rory Formation	1.58E+09	686		0.96	0.17	2292
Strath Rory Formation	9.00E+08	43		1	0.15	75

* Volume is only given where area and thickness were not listed separately.