

Electronic Supplementary Information (ESI) for

The global technical and economic potential of bioenergy from salt-affected soils

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ESI Table 1 Global technical biomass production potential, by type and severity of salt-affectedness, land use/cover, and regions

Type	Severity	Land use/ cover	Canada	F USSR	W Europe	USA	E Europe	E Asia	Japan	M East	S Asia	N Africa	C America	SE Asia	W Africa	Oceania	E Africa	S America	S Africa	Total	
saline	slight	agriculture	0	2344	1	25	1	246	0	135	126	2	1	0	0	453	21	982	27	5502	
		shrub / herb ^a	0	3305	0	204	3	129	0	511	241	267	73	0	0	122	661	354	812	21832	
		bare areas	0	579	0	0	0	96	0	506	103	139	0	0	0	82	69	15	1	1590	
		total	0	6227	1	206	4	163	0	115	160	409	75	0	0	128	751	1350	840	28924	
	moderate	agriculture	0	28	0	0	0	5	0	12	0	1	12	0	0	0	56	4	13	132	
		shrub / herb ^a	0	57	0	0	0	22	0	113	0	28	143	0	0	0	345	107	488	1303	
		bare areas	0	61	0	0	0	30	0	126	0	69	0	0	0	0	71	31	0	388	
		total	0	146	0	0	0	57	0	252	0	98	155	0	0	0	471	142	501	1823	
	Very	agriculture	0	1	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	8
		shrub / herb ^a	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	19	22
		bare areas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
		total	0	1	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	20	31
	extreme	agriculture	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5
		shrub / herb	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	9
		bare areas	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	9
		total	0	19	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	23	
		total	0	6394	1	206	4	170	0	140	160	506	229	0	0	128	1223	1496	136	30800	
	sodic	slight	agriculture	237	233	12	166	38	17	0	0	61	107	1	367	39	348	72	410	135	2243
			shrub / herb ^a	245	668	1	237	0	40	0	0	10	33	0	44	69	931	2087	300	132	4796
			bare areas	0	403	0	0	0	34	0	0	0	0	0	0	4	91	5	27	0	564
		total	482	1304	13	403	38	90	0	0	70	140	1	411	112	137	2164	737	267	7603	
moderate		agriculture	117	806	0	187	54	378	0	1	157	212	0	0	221	860	224	1349	18	4583	
		shrub / herb ^a	61	855	0	260	2	129	0	3	18	65	0	0	179	501	605	949	80	8224	
		bare areas	0	238	0	0	0	3	0	0	3	0	0	0	0	90	0	6	0	341	
		total	178	1899	0	447	57	509	0	4	178	277	0	0	400	596	829	2304	98	13147	
very		agriculture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	480	0	497	
		shrub / herb ^a	0	0	0	0	0	0	0	0	0	3	0	0	0	0	163	128	0	294	
		bare areas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	
		total	0	0	0	0	0	0	0	0	0	3	0	0	0	0	179	632	0	814	
extreme		agriculture	0	0	0	0	20	0	0	0	0	0	0	36	0	0	8	11	2	78	
		shrub / herb ^a	0	0	0	0	1	0	0	0	0	8	0	3	0	0	14	3	39	69	
		bare areas	0	0	0	0	0	0	0	0	0	12	0	0	0	0	2	0	0	14	
		total	0	0	0	0	21	0	0	0	0	20	0	39	0	0	22	16	42	160	
		total	661	3204	13	849	116	600	0	4	248	439	1	450	511	733	3195	3688	407	21725	
saline-sodic		slight	agriculture	0	0	0	0	0	0	0	0	0	0	0	0	2	0	109	0	0	111
			shrub / herb ^a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154	0	0	154
			bare areas	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
		total	0	0	0	0	0	0	0	0	0	0	0	0	3	0	263	0	0	267	
	moderate	agriculture	0	20	8	0	9	35	0	0	0	1	0	0	0	0	9	6	1	88	
		shrub / herb ^a	0	21	0	0	0	8	0	0	0	27	0	0	0	0	167	350	51	625	
		bare areas	0	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6	
		total	0	46	8	0	9	43	0	0	0	28	0	0	0	0	176	357	52	718	
	very	agriculture	2	0	0	0	1	0	0	22	759	1	0	0	47	0	0	7	840		
		shrub / herb ^a	1	0	0	15	1	2	0	40	24	18	0	0	12	0	47	0	13	172	
		bare areas	0	0	0	0	0	0	0	48	3	11	0	0	5	0	0	0	0	66	
		total	3	0	0	15	1	2	0	111	786	30	0	0	64	0	47	0	20	1078	
	extreme	agriculture	1	80	14	3	19	38	0	80	85	30	18	76	58	0	11	1	42	557	
		shrub / herb ^a	0	168	1	26	5	21	0	117	14	61	12	2	165	48	32	3	79	755	
		bare areas	0	126	0	0	0	3	0	180	9	18	0	0	3	0	0	1	7	348	
		total	1	375	15	28	25	62	0	378	108	109	30	78	226	48	43	6	128	1660	
		total	5	420	23	43	35	107	0	488	894	168	30	78	293	48	529	363	199	3723	
	Total			665	1001	37	296	155	240	0	189	275	111	260	528	804	201	4947	5547	196	56248

Type	Severity	Land use/ cover	Canada	F USSR	W Europe	USA	E Europe	E Asia	Japan	M East	S Asia	N Africa	C America	SE Asia	W Africa	Oceania	E Africa	S America	S Africa	Total
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a - shrub and herbaceous cover