

Supplement of Biogeosciences, 14, 3957–3969, 2017  
<https://doi.org/10.5194/bg-14-3957-2017-supplement>  
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*Supplement of*

## **Recovery of biological soil crust richness and cover 12–16 years after wildfires in Idaho, USA**

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Plot	Site	BSC cover	BSC Freq	BSC rich	lat	long	avgdph	TRMT
FN1	Fenster	1.05	36	11	45.26087	-113.937	6.16	Burned
FN10	Fenster	0.55	39	14	45.25004	-113.931	6.29	Unburned
FN11	Fenster	12.5	52	18	45.25125	-113.926	6.24	Unburned
FN12	Fenster	8.625	67	24	45.25099	-113.926	6.52	Unburned
FN2	Fenster	0.0625	22	10	45.25888	-113.933	6.46	Burned
FN21	Fenster	4.5125	51	23	45.25749	-113.916	7.79	Unburned
FN22	Fenster	11.375	63	20	45.25965	-113.919	6.07	Burned
FN4	Fenster	0.675	39	14	45.26152	-113.934	6.7	Burned
FN5	Fenster	0.9125	37	8	45.26142	-113.937	6.15	Burned
FN6	Fenster	1.0375	46	13	45.25995	-113.933	6.46	Burned
FN7	Fenster	6.25	61	18	45.2522	-113.929	6.13	Unburned
FN9	Fenster	7.925	24	12	45.24984	-113.93	6.77	Unburned
TB10	Table Mtn	0.1375	2	2	44.69925	-114.203	7.25	Burned
TB12	Table Mtn	3.75	63	26	44.69436	-114.213	7.02	Unburned
TB13	Table Mtn	1.2875	39	15	44.69117	-114.211	6.3	Unburned
TB15	Table Mtn	7.625	105	28	44.69065	-114.212	7.5	Unburned
TB17	Table Mtn	3.375	72	21	44.68883	-114.208	6.61	Unburned
TB18	Table Mtn	2.875	73	22	44.69217	-114.206	7.19	Unburned
TB2	Table Mtn	0	7	7	44.7013	-114.204	6.91	Burned
TB22	Table Mtn	2.5	89	28	44.69151	-114.206	6.97	Unburned
TB5	Table Mtn	0.2	16	10	44.70411	-114.204	6.94	Burned
TB6	Table Mtn	0.75	90	26	44.70337	-114.208	6.68	Burned
TB8	Table Mtn	2.875	69	21	44.70387	-114.213	6.74	Burned
TB9	Table Mtn	0.65	17	8	44.7014	-114.203	6.65	Burned
TO1	Tobias	0.05	11	5	44.75345	-113.701	7.25	Burned
TO13	Tobias	14.625	84	23	44.76795	-113.715	6.17	Burned
TO14	Tobias	3.8125	45	11	44.7683	-113.714	6.64	Burned
TO15	Tobias	0.1	17	5	44.76951	-113.712	5.98	Burned
TO16	Tobias	12.375	50	14	44.77044	-113.723	6.89	Unburned
TO17	Tobias	1.025	37	14	44.76871	-113.723	6.1	Unburned
TO18	Tobias	5.6625	39	11	44.76836	-113.72	6.04	Unburned
TO2	Tobias	3.4	43	12	44.75291	-113.698	6.48	Burned
TO3	Tobias	0.95	16	5	44.75227	-113.701	6.37	Burned
TO4	Tobias	0.65	23	9	44.74039	-113.706	6.46	Unburned
TO5	Tobias	0.2125	20	7	44.7414	-113.705	5.95	Unburned
TO6	Tobias	1.4	30	13	44.73947	-113.705	6.3	Unburned
TX10	Texas	20.375	106	27	44.5797	-113.292	6.11	Unburned
TX13	Texas	1.2	79	20	44.5986	-113.281	7.05	Burned
TX14	Texas	0.0875	19	9	44.6012	-113.279	7.33	Burned
TX15	Texas	0.675	71	28	44.5993	-113.288	7.07	Burned
TX16	Texas	0.3375	56	19	44.5959	-113.284	7.54	Burned
TX17	Texas	0.1	31	12	44.5946	-113.279	7.26	Burned
TX19	Texas	13.125	111	27	44.6154	-113.287	7.1	Unburned
TX20	Texas	18	112	27	44.6099	-113.285	6.94	Unburned
TX21	Texas	22	120	34	44.6095	-113.287	6.79	Unburned
TX22	Texas	10.625	63	21	44.6123	-113.292	7.27	Unburned

TX6	Texas	1.375	76	23	44.5868	-113.285	7.59 Burned
TX7	Texas	11.8875	84	34	44.5764	-113.306	7.06 Unburned

Elev_M	rdnbr	dnbr	fire.level.cover	fire.level.richness	Foliose	Fruticose	SmFoliose
1669	1039	152	6.727083333	18.16666667	1	0	1
1634	588	68	6.727083333	18.16666667	0	0	3
1515	358	36	6.727083333	18.16666667	2	0	3
1557	173	-6	6.727083333	18.16666667	4	0	0
1566	815	148	6.727083333	18.16666667	1	0	1
1363	35	-13	6.727083333	18.16666667	2	3	1
1380	694	105	6.727083333	18.16666667	8	0	6
1586	278	46	6.727083333	18.16666667	2	0	0
1645	2124	293	6.727083333	18.16666667	1	0	0
1654	2629	263	6.727083333	18.16666667	1	0	2
1613	-52	-32	6.727083333	18.16666667	7	0	3
1603	-8	-28	6.727083333	18.16666667	0	0	0
2072	640	92	3.56875	23.33333333	0	0	0
1977	19	12	3.56875	23.33333333	2	0	2
1967	-44	0	3.56875	23.33333333	3	0	3
1975	-63	-6	3.56875	23.33333333	8	4	3
2071	-7	36	3.56875	23.33333333	1	5	7
2003	142	29	3.56875	23.33333333	0	0	3
2110	236	66	3.56875	23.33333333	0	0	0
2025	62	21	3.56875	23.33333333	1	0	7
2093	-94	8	3.56875	23.33333333	0	1	0
2092	121	33	3.56875	23.33333333	2	8	4
2043	103	43	3.56875	23.33333333	6	0	2
2119	324	69	3.56875	23.33333333	0	3	0
1991	380	153	3.554166667	11.33333333	1	0	0
1934	571	211	3.554166667	11.33333333	13	0	9
1946	662	360	3.554166667	11.33333333	4	0	3
1923	674	336	3.554166667	11.33333333	0	0	1
1885	570	279	3.554166667	11.33333333	6	0	4
1937	574	381	3.554166667	11.33333333	3	0	1
1946	588	337	3.554166667	11.33333333	2	0	3
1999	407	235	3.554166667	11.33333333	5	0	5
2006	467	257	3.554166667	11.33333333	1	0	0
2074	333	209	3.554166667	11.33333333	1	0	1
2066	304	199	3.554166667	11.33333333	0	0	0
2090	240	151	3.554166667	11.33333333	3	0	0
1963	-90	31	16.00208333	28.33333333	10	7	7
1928	528	182	16.00208333	28.33333333	1	7	4
1924	482	104	16.00208333	28.33333333	0	2	0
1929	698	187	16.00208333	28.33333333	1	4	4
1929	490	142	16.00208333	28.33333333	1	4	2
1936	639	154	16.00208333	28.33333333	0	5	0
1914	-191	5	16.00208333	28.33333333	9	7	6
1914	254	120	16.00208333	28.33333333	8	7	6
1914	-53	36	16.00208333	28.33333333	11	6	7
1909	-227	9	16.00208333	28.33333333	1	6	5

1945	603	194	16.00208333	28.33333333	2	5	4
1971	-137	31	16.00208333	28.33333333	6	7	3

Squamulos	ThickCrust	ThinCrust	Vagrant	Cushion	Mat	TurfShort	TurfTall	AnnGrass
4	1	0	0	0	0	20	9	2.5
11	1	2	0	0	0	15	7	9.6375
8	2	5	0	0	3	21	8	1.75
10	15	5	0	0	2	23	8	0
3	1	0	0	0	0	13	5	8.875
10	9	13	0	1	0	3	11	5.7625
11	7	3	0	0	5	16	7	0
4	0	5	0	0	1	19	8	4.125
2	0	0	0	0	0	26	8	2.125
8	0	4	0	0	0	22	9	0
10	4	5	0	0	2	22	8	0
6	3	2	0	1	0	6	8	13.625
0	0	0	0	0	0	1	1	0
15	5	23	0	0	0	7	9	0
6	1	9	0	0	0	12	5	0
23	16	34	0	0	0	9	8	0
15	4	23	0	0	0	9	8	0
22	3	28	0	0	0	9	8	0
0	0	7	0	0	0	0	0	0
28	7	31	0	0	0	7	8	0
1	0	4	0	0	0	3	7	0
18	6	30	0	0	0	15	7	0
18	7	20	0	0	0	14	2	0
0	1	10	0	0	0	0	3	0
0	0	0	0	0	0	9	1	0
11	5	13	0	0	0	25	8	0
5	1	3	0	0	0	21	8	0
0	0	0	0	0	0	13	3	0.625
7	0	7	0	0	1	16	9	0
1	0	0	0	0	5	20	7	0
5	0	3	0	0	0	20	6	0
5	0	0	0	0	1	17	10	0
0	0	0	0	0	0	14	1	0.125
1	0	0	0	0	0	15	5	0.125
1	0	0	0	0	3	15	1	3.3875
4	0	0	0	0	1	18	4	0
19	7	26	16	0	0	9	11	0
15	9	19	11	0	0	10	9	0
1	2	2	2	0	0	15	3	0
15	9	20	8	0	0	12	4	0
12	6	13	12	0	0	2	4	0
2	1	8	8	0	0	8	3	0
26	12	22	18	0	0	5	8	0
22	11	20	19	0	0	11	12	0
26	10	22	21	0	0	14	11	0
5	5	18	10	0	0	4	11	0

9	7	26	7	0	0	22	8	0
15	8	27	8	0	0	4	8	0

Cowpie	feces	Forb	Litter	PerGrass	Rock	Shrub	Soil	Wood
0	0	9.7375	0	15.75	14.5	36.125	28.625	0.0125
0	0.125	12.675	0	14.25	30.625	12.625	31.25	0
2	0.625	8.2625	0	27.65	9.5	36.5	19	0
0.375	0.25	6.125	0	23.75	12.625	11.25	32.875	1.5
0	0	5.6375	0	6.5	36.375	23.875	17.875	0.0125
0	0	8.7	0	17.5125	36.7625	5	17.3875	0
0.375	0	13.5	0	39.375	21	2.25	17.125	0
0.125	0	14.1	0	24.75	11.5	35.375	34.5	1.5
0.25	0	8.775	0	15.875	14.5	35.25	39.125	0
0.875	0.375	18.6125	0	26.0125	5.875	34.375	30.125	0.25
1.125	0.75	13.0125	0	44.5	13.5	7.5	15.6375	0
0	0	3.5625	0	5.125	54.875	12.875	18.5	2.75
0.625	0	11.175	0	15.625	17.75	16.125	39.375	1
1.25	0	9.3	0	14.625	24.375	25.875	30.75	1.875
1.125	0	17.4375	0	17.65	6.875	26.875	18.625	2.5
0.375	0	15.975	0	12.8125	27.875	10.125	27.875	0.125
0	0	10.0375	0	31.625	16.75	23.25	18.25	0.625
0.75	0	6.95	0	13.625	42	19.75	20	0
0	0	9.925	0	9.625	30.625	26.125	25.625	0
0.5	0	9.8625	0	17.75	27.125	20.125	28.75	0
0.5	0	7.9375	0	18.125	20	26.25	22.5	2.875
1.25	0	19.6625	0	21.875	24.125	13	24.625	0
0	0	12.3625	0	22	25.375	17.25	22	0
0.25	0	15.35	0	7.8875	28.125	25.5	23.125	0.625
0.375	0	16.825	0	83.4	3.8125	2.125	7.0625	0
0.0125	0	13.325	0	40.125	29.875	0	21.75	0.0125
3.75	0	19.475	0	46.5	11.375	1.75	12.25	0.0125
0	0	18.175	0	65.875	5.3	0.5	18.275	0.125
0.25	0	39.0125	0	38.9	1.05	26.375	7.55	2.5
0	0	31.2125	0	40.025	0.2125	42.25	2.05	0
1.75	0	11.6625	0	53.6625	6.1375	1.2625	12.5125	0
0	0	47.4375	0	50.625	11.375	7.375	8.875	0.5125
0.75	0	22.675	0	32.15	6.125	19.375	21.375	0.75
5.125	0	15.8625	0	85	0.875	0	3.5	0
0	0	34.875	0	51.5375	4.75	5.625	12.3875	0
0	0	32.0125	6.625	42.1625	3.875	25.25	2.5	0
0	0	2.8125	0	8.6375	26	34.5	26.25	3.75
1.25	0	2.425	0	31	25.875	8.25	30.625	0.375
1.875	0	0	0	32.125	4.75	17.5	38	0.5
1.25	0	1.575	0	37.25	38.5	2.7625	15.375	0.875
1.375	0	0.4375	0	37.75	21	0.525	24.375	0.625
3.375	0	5.7875	0	33.8875	10.875	0.125	30	0.5
0	0	0.7875	0	25.3875	25.5	26.6375	30.125	0.625
0.375	0	3.275	0	29.125	19.875	35.3875	23.375	0.125
0	0	0.775	0	9.75	24.75	40.9	23.125	0
2.875	0	0.75	0	19.5	29.25	34.875	20.625	0



1	0	0.9625	0	33.9125	31.25	1.65	16.625	0
0	0	9.7	0	11.5375	20.25	27.6375	17.375	0

CMD_at	PPT_sp	Tmin_wt	Tmin_sm
83	110	-10.2	7.4
89	98	-10.4	7.4
95	92	-10	8
93	92	-10.1	7.8
88	104	-10	7.9
101	82	-9.4	8.9
99	87	-9.4	8.9
86	106	-10	7.8
83	109	-10.2	7.5
85	103	-10.2	7.5
90	97	-10.3	7.5
91	96	-10.3	7.5
74	129	-11	5.7
78	126	-10.9	6.1
80	124	-10.9	6.2
80	123	-11	6.1
78	122	-11.2	5.7
79	124	-11	6
72	131	-11.1	5.5
79	124	-11.1	5.9
71	134	-11	5.6
71	135	-10.9	5.6
72	134	-10.9	5.8
72	131	-11.1	5.5
61	147	-11.4	6.5
65	136	-10.9	7.2
66	135	-10.9	7.1
68	133	-10.8	7.2
64	138	-10.6	7.6
62	139	-10.8	7.3
63	138	-10.8	7.2
60	148	-11.4	6.6
60	147	-11.5	6.4
55	147	-11.7	6.1
55	148	-11.7	6.1
54	148	-11.8	6
101	76	-11.9	5.8
104	71	-11.9	5.9
104	71	-11.8	5.9
104	71	-12	5.8
104	72	-11.9	5.8
103	72	-11.8	5.9
107	67	-12.1	5.7
106	69	-12	5.8
106	68	-12	5.8
107	67	-12.1	5.7

103	74	-11.9	5.8
99	77	-12	5.5