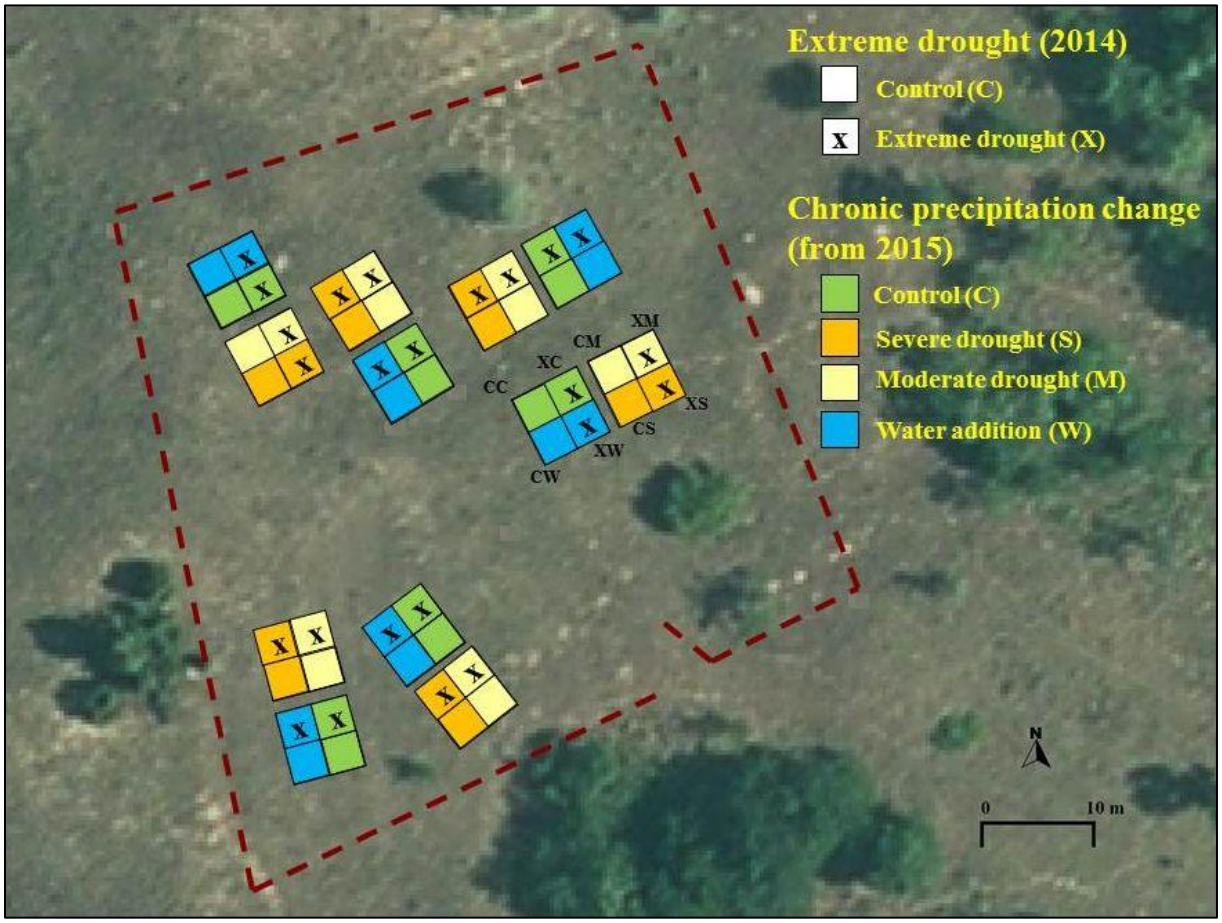
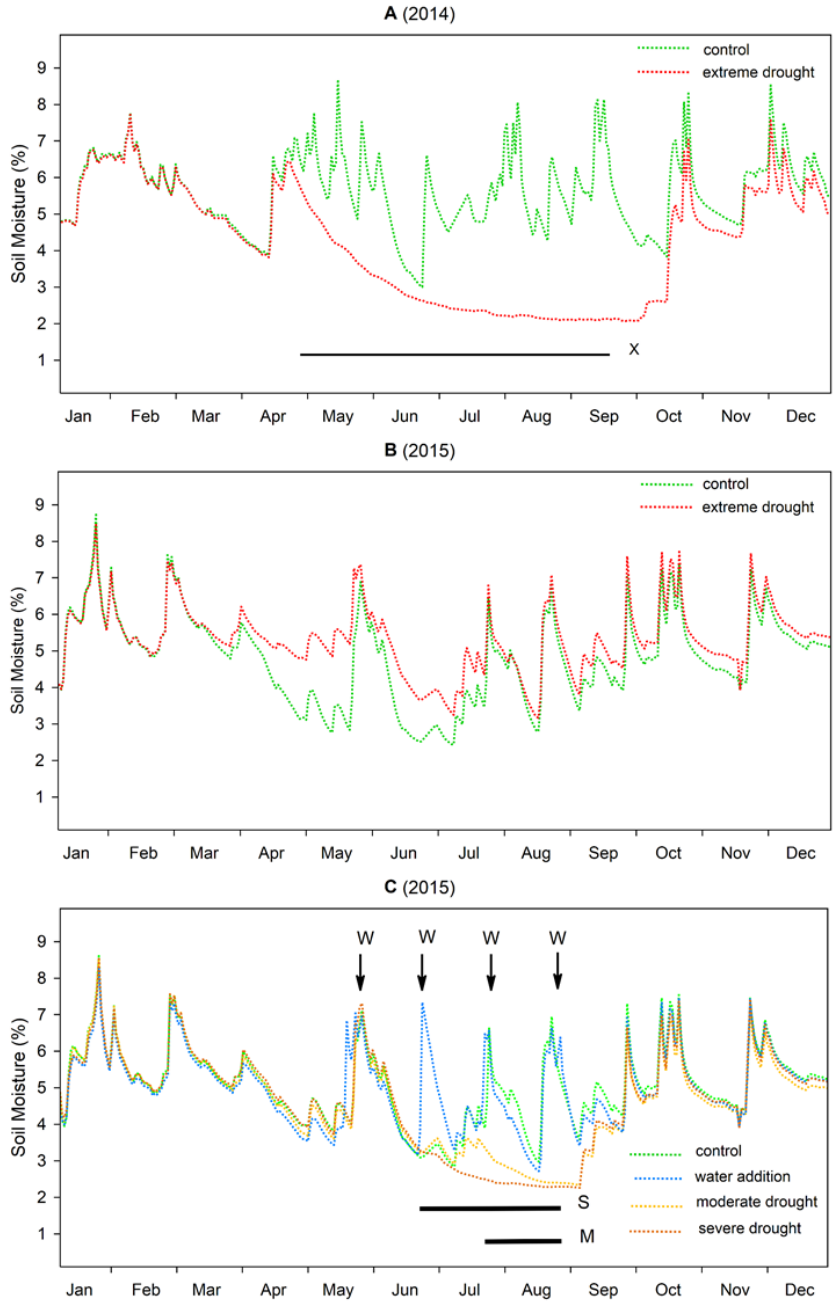
Supplement 2

S2 Fig A. Spatial layout of plots at the experimental site. X indicates the sites treated with extreme drought (factor 1), plots without X were used as controls in the first year (2014). In the consecutive year (2015) mild precipitation changes (factor 2) were used with 4 four levels: water addition (W, blue plots), control (C, green plots), moderate drought (M, light yellow plots) and severe drought (S, dark yellow plots). The study site is surrounded by a fence (dashed red line).



S2 Fig B. Temporal dynamics of soil moisture in the different treatment plots. y axis: Soil moisture (SM) (vol/vol%), x axis: time (days). A: first year of treatment (2014), B: second year of treatment (2015) showing the difference between previously X treated and untreated sites, C: second year of treatment (2015) showing the difference between the four levels of treatments. Red dotted line: SM at extreme drought treated sites, green dotted lines: SM at control sites, blue dotted line: SM at water addition sites, orange dotted line: SM at moderate drought treated sites, brown dotted line: SM at severe drought treated sites. W indicates the time when water addition treatments were applied. M, S, X represent the time frame of different treatments, respectively: moderate drought, severe drought, extreme drought).



S2 Table A. Collembola species captured at the study site during the experiment.

Collembola species	2015 Apr.-Nov.	2015 Jul.-Nov.	2014 Jul.-Nov.	main habitat	temperature and moisture	vertical stratification	category
Most frequent species	number of individuals						
Arrhopalites caecus (Tullberg, 1871)	574	93	381	synanthropic, caves [1]	troglophil, mesophil [2, 3]	hemiedaphic to euedaphic [2, 4, 5, 6]	soil living
Entomobrya nigriventris Stach,1930	46803	19023	19271	grassland [7]	xerothermophil [8]	epedaphic	surface living

Lepidocyrtus cyaneus Tullberg, 1871	488	329	2	open ecosystem [1, 9]	mesophil [10]	epedaphic [5, 11]	surface living
Proisotoma minuta (Tullberg, 1871)	556	273	2286	compost, ruderal [1]	thermophil, hygrophil [8, 10, 12, 13]	hemiedaphic [5]	soil living
Sphaeridia pumilis (Krausbauer, 1898)	281	206	1103	open ecosystem [1]	mesophil to hygrotolerant [3, 8, 12, 14]	vegetation living, hemiedaphic [2, 12, 14]	vegetation living
Xenylla maritima Tullberg, 1869	2372	402	10	open, arid ecosystem [1]	xerophil [8, 15]	hemiedaphic [16]	soil living
Rare species							
Anurophorus pseudolaricis Loksa, 1978	3	0	0	moist habitat [17]	hygrophil [17]	hemiedaphic [17]	soil living
Bourletiellida	1	1	0	?	?	?	not included
Brachystomella curvula Gisin, 1948	7	3	30	steppe ecosystem, ravine forest [1]	xerothermophil [6, 8, 18]	hemiedaphic [6]	soil living
Ceratophysella succinea (Gisin, 1949)	2	0	1	open ecosystem, anthropogenic origin [1]	mesophilous [18]	hemiedaphic [6]	soil living
Cyphoderus albinus Nicolet, 1842	34	6	23	myrmecophil, forest, steppe, flood meadow [1]	thermophil, mesophil to xerophil [6, 9, 11]	euedaphic [6]	soil living
Entomobrya multifasciata (Tullberg, 1871)	7	1	8	open ecosystem, forest [1]	xerothermophilic [8, 15]	hemiedaphic [18]	soil living
Folsomia candida (Willem, 1902)	7	0	5	ruderal, troglophilic [1]	probably thermophil, mesophil [6]	euedaphic [6, 11]	soil living
Heteromurus nitidus (Templeton, 1835)	9	0	1	synanthropic, forests and meadows [1]	hygrophil to mesophil [6, 19]	hemiedaphic to euedaphic [4, 5, 6, 8]	soil living
Orchesella taurica (Stach, 1960)	49	0	2	forest, meadow steppe ecosystem [1] ***new to the Hungarian fauna***	xerophil [1]	hemiedaphic [1]	soil living
Protaphorura serbica (Loksa & Bogojevic, 1967)	0	0	3	open, arid ecosystem [1]	xerothermophil [8, 20]	eudepahic [9]	soil living
Pseudosinella sexoculata Schött, 1902	38	12	0	open ecosystem [1]	?	hemiedaphic [18]	soil living
Sminthurus viridis (Linnaeus, 1758)	18	1	14	open ecosystem, anthropogenic [1]	hygrophil, mesophil [15, 18]	vegetation living [15]	vegetation living
Sminthurus mulitpunctatus Schäffer, 1896	0	0	1	low vegetation of dry habitats [2]	xerothermophil [2, 8, 15]	vegetation living [2, 15]	vegetation living
Sminthurus nigromaculatus Tullberg, 1871	1	0	0	open ecosystems; steppe	xerothermophil [2]	vegetation living [2]	vegetation living

				ecosystem, ravine forests [1]			
Sminthurus maculatus Tömösváry, 1883	0	0	1	steppe [1]	xerothermophil [2]	vegetation living [2]	vegetation living
Willowsia buski (Lubbock,1869)	6	2	2	synanthropic, corticophil, saxicolous and xerothermic grassland [1, 8, 15]	xerothermophil [8, 15]	hemiedaphic [15]	soil living

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S2 Table B. Oribatida species captured at the study site during the experiment.

Oribatida species	2015 Apr.-Nov.	2015 Jul.-Nov.	2014 Jul.-Nov.	main habitat	moisture	feeding
Most frequent species						
Scutovertex sculptus Michael, 1879	315	231	228	moss, canopy, grassland [1, 2]	halophil, xerophil [1, 2]	microphytophag [3]
Passalozetes perforatus (Berlese, 1910)	327	177	253	grassland [2]	xerophil [2]	microphytophag [4]
Oribatula divida Mahunka, 1987	193	70	41	grassland (endemic?) [5]	?	?
Latovertex hungaricus Mahunka, 1987	44	15	39	grassland (endemic?) [5]	?	?
Trichoribates trimaculatus (Koch, 1836)	13	4	15	moss, canopy, grassland [2]	xerophil [2]	panphytophag [6]
Zygoribatula glabra (Michael, 1890)	16	3	2	grassland, ruderal [1,7]	xerophil [7]	?
Rare species						
Belba sculpta Mihelčič, 1957	2	2	0	forest [8] ***new to the Hungarian fauna***	?	?
Scheloribates fimbriatus Thor, 1930	2	2	4	grassland [5]	?	?
Micreremus brevipes (Michael, 1888)	4	2	1	canopy, lichen, moss [2]	xerophil [2]	microphytophag [6]
Galumna bimorpha Mahunka, 1987	1	1	0	grassland (endemic?) [5]	?	?
Phauloppia lucorum (Koch, 1841)	3	0	0	canopy, lichen [2]	xerophil [2]	panphytophag [9]
Gymnodamaeus bicostatus (Koch, 1835)	1	0	1	forest, canopy, lichen, moss [2]	xerophil [2]	microphytophag [10]
Pilogalumna crassiclava (Berlese, 1914)	1	0	1	forest, ruderal [1,2]	xerophil [2]	?
Tectocepheus sarekensis Trägardh, 1910	1	0	1	euryoecious 2	-	panphytophag [11]
Aleurodamaeus setosus (Berlese, 1883)	1	0	0	forest, moss [5,12]	xerophil [5]	?
Scheloribates pallidulus (Koch, 1841)	2	0	0	forest [2]	hygrophil [2]	panphytophag [3]
Oppiella uliginosa (Willmann, 1919)	1	0	0	forest, moss, canopy [2]	?	?
Scheloribates latipes (Koch, 1844)	1	0	0	forest, grassland [1]	?	microphytophag [13]
Camisia segnis (Hermann, 1804)	2	0	0	canopy, moss [1,2]	xerophil [2]	panphytophag [14]
Zygoribatula exilis (Nicolet, 1855)	0	0	2	canopy, moss [2]	xerophil [2]	microphytophag [15]
Ramusella insculpta (Paoli, 1908)	0	0	1	forest, grassland [1]	xerophil [1]	microphytophag [15]
Ramusella clavipectinata (Michael, 1885)	0	0	1	grassland, moorland [1]	hygrophil [1]	microphytophag [9]

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S2 Table C. Mean number of captured Collembola individuals in 2015 across 4 treatment levels (control, water addition, moderate or severe drought). First table (Collembola) includes all of the Collembolan specimens, whereas thereafter separate groups are shown. The rows contain the months and the previous treatments (C: control, X: extreme drought).

		Collembola (all groups) (mean ± SD (number of samples))			
month	**first treatment**	**Control**	**Water**	**Moderate d.**	**Severe d.**
4	c	244.8 ± 140.7 (6)	307.3 ± 256.1 (6)	648 ± 301.6 (6)	507.2 ± 272.4 (6)
	x	167.8 ± 78.1 (6)	345.8 ± 315.6 (6)	437.8 ± 386.1 (6)	283.5 ± 222.7 (6)
5	c	127.7 ± 96.5 (6)	140.5 ± 149.3 (6)	281.7 ± 198.2 (6)	208.8 ± 82.3 (6)
	x	83.2 ± 62.2 (5)	164.8 ± 157 (6)	137.7 ± 184.7 (6)	98 ± 82 (6)
6	c	168 ± 214.4 (5)	148.8 ± 267.7 (6)	194 ± 231.4 (6)	184.2 ± 161.7 (5)
	x	79.3 ± 94.9 (4)	110.8 ± 182.8 (6)	42.4 ± 37.9 (5)	140.6 ± 193.1 (5)
7	c	347.5 ± 169 (2)	576.3 ± 712.3 (3)	667.5 ± 650.1 (4)	246.8 ± 220.9 (5)
	x	315.5 ± 351.7 (4)	544.3 ± 643.6 (4)	78.3 ± 40.9 (4)	400 ± 421 (5)
8	c	137 ± 190 (5)	307.3 ± 539.2 (4)	141.8 ± 234.2 (5)	18.7 ± 14.8 (6)
	x	111.3 ± 122.5 (6)	213.3 ± 189.7 (4)	50.7 ± 66.3 (3)	20.3 ± 13.8 (6)
9	c	56.8 ± 61.1 (6)	50 ± 55 (6)	57.5 ± 62.2 (6)	32.5 ± 28.8 (6)
	x	80.2 ± 102.9 (5)	125.3 ± 121.1 (4)	21.8 ± 19 (5)	21 ± 16.3 (6)
10	c	6.8 ± 5 (6)	26.3 ± 28 (6)	32.2 ± 30.9 (6)	44.6 ± 25.5 (5)
	x	6.8 ± 8.7 (6)	15.2 ± 13.6 (6)	36.7 ± 32 (6)	20.5 ± 10.7 (6)
11	c	5.3 ± 5.2 (6)	6.2 ± 5.8 (6)	5 ± 1.2 (5)	9.8 ± 5.9 (6)
	x	3.3 ± 3.6 (6)	5.5 ± 5.9 (6)	14.2 ± 7.1 (6)	7.2 ± 6.6 (6)

		Soil living Collembola (mean ± SD (number of samples))			
month	**first treatment**	**Control**	**Water**	**Moderate d.**	**Severe d.**
4	c	10.3 ± 18.5 (6)	44.2 ± 97.9 (6)	22.5 ± 45.9 (6)	14.7 ± 14.5 (6)
	x	14.7 ± 33 (6)	6.5 ± 9.3 (6)	2.7 ± 2.4 (6)	3.2 ± 3.5 (6)
5	c	42.2 ± 97.4 (6)	13.8 ± 20.8 (6)	27.8 ± 58 (6)	23.7 ± 50.3 (6)
	x	38.4 ± 79.3 (5)	4.2 ± 5 (6)	1 ± 1.7 (6)	3.5 ± 4.8 (6)
6	c	99.4 ± 221.1 (5)	13.3 ± 27.8 (6)	75 ± 164.7 (6)	1 ± 1 (5)
	x	8 ± 14.7 (4)	13 ± 29.9 (6)	0.4 ± 0.5 (5)	1.4 ± 1.5 (5)
7	c	4 ± 4.2 (2)	2.7 ± 2.3 (3)	7 ± 13.3 (4)	0.4 ± 0.5 (5)
	x	2.5 ± 5 (4)	91.8 ± 178.9 (4)	0.3 ± 0.5 (4)	0.8 ± 0.8 (5)

8	c	2.4 ± 5.4 (5)	1.3 ± 1.3 (4)	0.2 ± 0.4 (5)	0 ± 0 (6)
	x	1.8 ± 1.8 (6)	2.3 ± 3.9 (4)	0 ± 0 (3)	6.7 ± 16.3 (6)
9	c	1.5 ± 1.6 (6)	1.2 ± 1 (6)	3.3 ± 6.8 (6)	2.2 ± 4.8 (6)
	x	1.2 ± 1.3 (5)	1.3 ± 1.9 (4)	3.2 ± 3.6 (5)	1 ± 0.6 (6)
10	c	2.2 ± 4.8 (6)	3.8 ± 3.5 (6)	2.2 ± 4.4 (6)	1.4 ± 1.5 (5)
	x	0.2 ± 0.4 (6)	3.2 ± 6.8 (6)	4.8 ± 8.2 (6)	1.3 ± 1 (6)
11	c	1.3 ± 3.3 (6)	3.2 ± 4.2 (6)	2.2 ± 3 (5)	2.5 ± 2.4 (6)
	x	0.5 ± 0.8 (6)	0.2 ± 0.4 (6)	4 ± 4.6 (6)	1.7 ± 3.1 (6)

Surface living Collembola (mean ± SD (number of samples))

month	first treatment	Control	Water	Moderate d.	Severe d.
4	c	234 ± 144.5 (6)	263.2 ± 279.6 (6)	625.2 ± 313.2 (6)	492.5 ± 278 (6)
	x	153 ± 94.6 (6)	337.5 ± 305.3 (6)	434.7 ± 385.1 (6)	279.8 ± 223.8 (6)
5	c	85 ± 45.5 (6)	126.3 ± 158.7 (6)	253 ± 211.4 (6)	184.8 ± 90.9 (6)
	x	44.8 ± 30.6 (5)	160.2 ± 152.9 (6)	136.5 ± 184.8 (6)	94.2 ± 84.1 (6)
6	c	68.2 ± 60.3 (5)	134.5 ± 272.8 (6)	117.5 ± 191.8 (6)	181.4 ± 161.7 (5)
	x	71.3 ± 98.7 (4)	96.7 ± 150.5 (6)	41.8 ± 37.4 (5)	137 ± 189.3 (5)
7	c	343 ± 164 (2)	573.7 ± 711 (3)	660 ± 636.5 (4)	246.4 ± 221.2 (5)
	x	313 ± 354.4 (4)	451.8 ± 503.4 (4)	77.8 ± 40.1 (4)	399.2 ± 421.6 (5)
8	c	133.8 ± 189.4 (5)	306 ± 538 (4)	141.6 ± 233.7 (5)	18.7 ± 14.8 (6)
	x	109.3 ± 123.7 (6)	210.8 ± 187.4 (4)	50.7 ± 66.3 (3)	13.7 ± 9.7 (6)
9	c	55 ± 60 (6)	48.2 ± 55.5 (6)	53.7 ± 63.9 (6)	26.3 ± 24.6 (6)
	x	78 ± 102.9 (5)	123.5 ± 119.7 (4)	18.2 ± 16.8 (5)	19.8 ± 15.6 (6)
10	c	4.3 ± 2.9 (6)	20.2 ± 30.6 (6)	29.7 ± 29.3 (6)	35 ± 29.6 (5)
	x	6.3 ± 7.7 (6)	10.8 ± 7.4 (6)	28.3 ± 23.4 (6)	16.8 ± 10.5 (6)
11	c	3.3 ± 4.6 (6)	2.8 ± 3 (6)	2.8 ± 2.2 (5)	5.5 ± 4.1 (6)
	x	2.3 ± 3.4 (6)	5 ± 5.7 (6)	8 ± 6.2 (6)	3 ± 3.6 (6)

Vegetation living Collembola (mean ± SD (number of samples))

month	first treatment	Control	Water	Moderate d.	Severe d.
4	c	0.5 ± 0.8 (6)	0 ± 0 (6)	0.3 ± 0.5 (6)	0 ± 0 (6)
	x	0.2 ± 0.4 (6)	1.8 ± 2.9 (6)	0.5 ± 1.2 (6)	0.5 ± 0.8 (6)
5	c	0.5 ± 0.8 (6)	0.3 ± 0.5 (6)	0.8 ± 2 (6)	0.3 ± 0.8 (6)
	x	0 ± 0 (5)	0.5 ± 1.2 (6)	0.2 ± 0.4 (6)	0.3 ± 0.8 (6)
6	c	0.4 ± 0.5 (5)	1 ± 2 (6)	1.5 ± 2.1 (6)	1.8 ± 2.2 (5)
	x	0 ± 0 (4)	1.2 ± 2.9 (6)	0.2 ± 0.4 (5)	2.2 ± 4.9 (5)
7	c	0.5 ± 0.7 (2)	0 ± 0 (3)	0.5 ± 1 (4)	0 ± 0 (5)
	x	0 ± 0 (4)	0.8 ± 1.5 (4)	0.3 ± 0.5 (4)	0 ± 0 (5)

8	c	0.8 ± 1.8 (5)	0 ± 0 (4)	0 ± 0 (5)	0 ± 0 (6)
	x	0.2 ± 0.4 (6)	0.3 ± 0.5 (4)	0 ± 0 (3)	0 ± 0 (6)
9	c	0.3 ± 0.5 (6)	0.7 ± 0.8 (6)	0.5 ± 0.5 (6)	4 ± 8.4 (6)
	x	1 ± 1.7 (5)	0.5 ± 1 (4)	0.4 ± 0.9 (5)	0.2 ± 0.4 (6)
10	c	0.3 ± 0.5 (6)	2.3 ± 3.4 (6)	0.2 ± 0.4 (6)	8.2 ± 9.9 (5)
	x	0.3 ± 0.8 (6)	1.2 ± 2.9 (6)	3.5 ± 7.6 (6)	2.3 ± 2.7 (6)
11	c	0.7 ± 1.6 (6)	0.2 ± 0.4 (6)	0 ± 0 (5)	1.8 ± 1.7 (6)
	x	0.5 ± 1.2 (6)	0.3 ± 0.5 (6)	2.2 ± 1.8 (6)	2.5 ± 2.8 (6)

S2 Table D. Mean number of captured Acari individuals in 2015 across 4 treatment levels (control, water addition, moderate or severe drought). First table (Acari) includes all of the Acari specimens, whereas thereafter separate groups are shown. The rows contain the months and the previous treatments (C: control, X: extreme drought).

		Acari (all groups) (mean ± SD (number of samples))			
month	**first treatment**	**Control**	**Water**	**Moderate d.**	**Severe d.**
4	c	58.8 ± 44.6 (6)	45.2 ± 41.8 (6)	73.5 ± 34 (6)	75.7 ± 46.4 (6)
	x	44.5 ± 29 (6)	46.7 ± 30.8 (6)	73.3 ± 54.3 (6)	54.5 ± 61.7 (6)
5	c	41.7 ± 27.6 (6)	21.3 ± 19.5 (6)	62.3 ± 34.8 (6)	56.7 ± 18.8 (6)
	x	13.8 ± 10.7 (5)	15.3 ± 12.8 (6)	29.2 ± 31.4 (6)	21.7 ± 14.7 (6)
6	c	16.4 ± 19.1 (5)	5.2 ± 7.2 (6)	14.3 ± 10.9 (6)	41.4 ± 54.9 (5)
	x	12.5 ± 17.9 (4)	4.8 ± 7.1 (6)	12.8 ± 13.3 (5)	16.8 ± 22.8 (5)
7	c	29.5 ± 31.8 (2)	10.7 ± 18.5 (3)	10.3 ± 15.3 (4)	17 ± 17.6 (5)
	x	22 ± 28.8 (4)	12 ± 21.4 (4)	33.8 ± 52.4 (4)	20 ± 23 (5)
8	c	12 ± 10.1 (5)	1 ± 2 (4)	14.4 ± 16.7 (5)	33.8 ± 30.7 (6)
	x	8.5 ± 16 (6)	9 ± 15.3 (4)	27.7 ± 18.6 (3)	15.3 ± 14.9 (6)
9	c	15.5 ± 20.6 (6)	5.3 ± 9.8 (6)	20.5 ± 16.4 (6)	12.2 ± 6.9 (6)
	x	14.4 ± 18.8 (5)	14 ± 22.8 (4)	35.8 ± 62.4 (5)	4.8 ± 4.9 (6)
10	c	2.3 ± 3 (6)	3.2 ± 4.6 (6)	6.7 ± 7.6 (6)	12.8 ± 8.8 (5)
	x	3.3 ± 3.7 (6)	6.3 ± 8.7 (6)	9.8 ± 8.4 (6)	8.3 ± 5.9 (6)
11	c	0 ± 0 (6)	0 ± 0 (6)	2.6 ± 3.2 (5)	14.3 ± 32.2 (6)
	x	0.2 ± 0.4 (6)	1.8 ± 4 (6)	4.5 ± 5.5 (6)	15.5 ± 23.1 (6)
		Astigmata (mean ± SD (number of samples))			
month	**first treatment**	**Control**	**Water**	**Moderate d.**	**Severe d.**
4	c	1.7 ± 3.6 (6)	0.3 ± 0.5 (6)	6 ± 12.3 (6)	1.7 ± 3.6 (6)
	x	0.7 ± 1.6 (6)	0 ± 0 (6)	0 ± 0 (6)	0.2 ± 0.4 (6)
5	c	11.7 ± 16 (6)	2.7 ± 3.9 (6)	12.8 ± 16.1 (6)	4.5 ± 4.8 (6)
	x	0.2 ± 0.4 (5)	0.2 ± 0.4 (6)	0 ± 0 (6)	0.5 ± 0.5 (6)
6	c	6.2 ± 12.3 (5)	0.7 ± 1.2 (6)	3.5 ± 4.1 (6)	7 ± 8.2 (5)
	x	0.8 ± 1 (4)	0.2 ± 0.4 (6)	1.6 ± 2.3 (5)	8.2 ± 11.9 (5)
7	c	6 ± 8.5 (2)	2 ± 3.5 (3)	1 ± 1.4 (4)	4.6 ± 5.4 (5)
	x	8 ± 8.9 (4)	1.5 ± 1.9 (4)	2.3 ± 2.6 (4)	9.6 ± 11.4 (5)
8	c	1.6 ± 3.6 (5)	0 ± 0 (4)	3.8 ± 7.9 (5)	5.5 ± 3.9 (6)
	x	3 ± 5.9 (6)	5.5 ± 10.3 (4)	6.3 ± 5.7 (3)	4.3 ± 4.8 (6)
9	c	2.8 ± 4.2 (6)	1.5 ± 3.7 (6)	0.8 ± 1.2 (6)	1.7 ± 3.2 (6)
	x	1.2 ± 1.3 (5)	6 ± 10.1 (4)	28 ± 57.2 (5)	1.2 ± 1 (6)
10	c	0.7 ± 1 (6)	1 ± 1.5 (6)	0.2 ± 0.4 (6)	0 ± 0 (5)
	x	0.7 ± 0.8 (6)	0.5 ± 1.2 (6)	3.3 ± 4.4 (6)	1.3 ± 2.4 (6)
11	c	0 ± 0 (6)	0 ± 0 (6)	0.2 ± 0.4 (5)	0.3 ± 0.5 (6)
	x	0 ± 0 (6)	0 ± 0 (6)	1 ± 2.4 (6)	0 ± 0 (6)
		Mesostigmata (mean ± SD (number of samples))			
month	**first treatment**	**Control**	**Water**	**Moderate d.**	**Severe d.**
4	c	38.2 ± 34.9 (6)	31.8 ± 35.1 (6)	47.8 ± 29.2 (6)	55.7 ± 39.2 (6)

	x	25.7 ± 17.4 (6)	28.5 ± 17.1 (6)	57.5 ± 44.3 (6)	37.5 ± 50.9 (6)
5	c	24.8 ± 22.4 (6)	13.5 ± 14.5 (6)	30 ± 25.6 (6)	38.8 ± 19 (6)
	x	8.8 ± 6.6 (5)	10.7 ± 8.4 (6)	20 ± 20.7 (6)	10.3 ± 11.8 (6)
6	c	4.2 ± 3.5 (5)	1.8 ± 3.1 (6)	4.5 ± 5.1 (6)	28.4 ± 43.7 (5)
	x	8.8 ± 14.4 (4)	1.3 ± 2.3 (6)	4.8 ± 4.9 (5)	4.2 ± 6 (5)
7	c	9.5 ± 7.8 (2)	5.7 ± 9.8 (3)	4 ± 6.7 (4)	8.6 ± 9.6 (5)
	x	11.3 ± 19.9 (4)	8.8 ± 16.8 (4)	28.3 ± 47 (4)	10 ± 18 (5)
8	c	6.4 ± 5.5 (5)	0 ± 0 (4)	3.8 ± 5 (5)	14.7 ± 16.5 (6)
	x	4.5 ± 10.1 (6)	2.3 ± 3.2 (4)	15.3 ± 12 (3)	4.8 ± 4.4 (6)
9	c	6.5 ± 9.7 (6)	0.7 ± 1 (6)	5.2 ± 5.6 (6)	4.3 ± 3.5 (6)
	x	6.2 ± 10.1 (5)	3.8 ± 6.8 (4)	5.4 ± 5.5 (5)	2.2 ± 2.3 (6)
10	c	0.5 ± 0.8 (6)	0.5 ± 0.5 (6)	2.3 ± 3.4 (6)	7.2 ± 5.1 (5)
	x	1 ± 1.5 (6)	3.5 ± 5.4 (6)	3.3 ± 3.1 (6)	4.5 ± 3.3 (6)
11	c	0 ± 0 (6)	0 ± 0 (6)	1.8 ± 2.7 (5)	12.7 ± 29.1 (6)
	x	0.2 ± 0.4 (6)	0.8 ± 2 (6)	2.8 ± 3.1 (6)	13.7 ± 20.9 (6)

Oribatida (mean ± SD (number of samples))

month	first treatment	Control	Water	Moderate d.	Severe d.
4	c	4.2 ± 3 (6)	2.7 ± 2.3 (6)	3.7 ± 2.1 (6)	3.3 ± 1.6 (6)
	x	2.5 ± 1.9 (6)	2.8 ± 2.6 (6)	3.3 ± 3.2 (6)	2.8 ± 3.1 (6)
5	c	2.2 ± 2.5 (6)	2 ± 2.1 (6)	10.3 ± 6.3 (6)	6.5 ± 3.6 (6)
	x	1.6 ± 1.5 (5)	0.8 ± 1 (6)	2.3 ± 2.5 (6)	3.3 ± 2 (6)
6	c	3.4 ± 3.7 (5)	1.7 ± 2.9 (6)	2.5 ± 2.7 (6)	4.6 ± 4.3 (5)
	x	1.5 ± 2.4 (4)	1.7 ± 3.1 (6)	3.4 ± 4.1 (5)	3.4 ± 4.2 (5)
7	c	12 ± 15.6 (2)	1.7 ± 2.9 (3)	5.3 ± 7.5 (4)	2 ± 2.3 (5)
	x	1 ± 2 (4)	1.5 ± 2.4 (4)	2.8 ± 3.2 (4)	0.2 ± 0.4 (5)
8	c	3 ± 3.7 (5)	0.8 ± 1.5 (4)	5.4 ± 8 (5)	9.5 ± 9.2 (6)
	x	0.2 ± 0.4 (6)	0.3 ± 0.5 (4)	3.7 ± 0.6 (3)	3.7 ± 5.6 (6)
9	c	5.8 ± 8.2 (6)	2.8 ± 5.5 (6)	12 ± 10.2 (6)	5 ± 3.2 (6)
	x	6.2 ± 7.2 (5)	2.3 ± 3.9 (4)	1.4 ± 0.9 (5)	0.7 ± 1 (6)
10	c	0.8 ± 1.6 (6)	1.5 ± 2.8 (6)	3 ± 3.6 (6)	4.4 ± 4.3 (5)
	x	1.3 ± 1.8 (6)	1.8 ± 2.1 (6)	2.5 ± 2.7 (6)	1.2 ± 1.5 (6)
11	c	0 ± 0 (6)	0 ± 0 (6)	0.4 ± 0.5 (5)	0.7 ± 1.2 (6)
	x	0 ± 0 (6)	0.8 ± 1.6 (6)	0.2 ± 0.4 (6)	1.3 ± 2.4 (6)

Prostigmata (mean ± SD (number of samples))

month	first treatment	Control	Water	Moderate d.	Severe d.
4	c	14.8 ± 12.2 (6)	10.3 ± 9.4 (6)	16 ± 8.6 (6)	15 ± 11.5 (6)
	x	15.7 ± 12.6 (6)	15.3 ± 12.4 (6)	12.5 ± 9.2 (6)	14 ± 11.2 (6)
5	c	3 ± 3.9 (6)	3.2 ± 2.6 (6)	9.2 ± 10.2 (6)	6.8 ± 6 (6)
	x	3.2 ± 2.9 (5)	3.7 ± 4.9 (6)	6.8 ± 9.4 (6)	7.5 ± 8.5 (6)
6	c	2.6 ± 3.2 (5)	1 ± 1.7 (6)	3.8 ± 4.2 (6)	1.4 ± 0.9 (5)
	x	1.5 ± 1.9 (4)	1.7 ± 2 (6)	3 ± 3.5 (5)	1 ± 1.2 (5)
7	c	2 ± 0 (2)	1.3 ± 2.3 (3)	0 ± 0 (4)	1.8 ± 1.9 (5)
	x	1.8 ± 1.7 (4)	0.3 ± 0.5 (4)	0.5 ± 0.6 (4)	0.2 ± 0.4 (5)
8	c	1 ± 1.7 (5)	0.3 ± 0.5 (4)	1.4 ± 2.6 (5)	4.2 ± 5.7 (6)
	x	0.8 ± 1.3 (6)	1 ± 1.4 (4)	2.3 ± 4 (3)	2.5 ± 3.1 (6)

9	c	0.3 ± 0.8 (6)	0.3 ± 0.5 (6)	2.5 ± 5.2 (6)	1.2 ± 2.4 (6)
	x	0.8 ± 1.1 (5)	2 ± 2.2 (4)	1 ± 1.2 (5)	0.8 ± 1.6 (6)
10	c	0.3 ± 0.8 (6)	0.2 ± 0.4 (6)	1.2 ± 1.2 (6)	1.2 ± 1.6 (5)
	x	0.3 ± 0.5 (6)	0.5 ± 0.8 (6)	0.7 ± 0.5 (6)	1.3 ± 0.8 (6)
11	c	0 ± 0 (6)	0 ± 0 (6)	0.2 ± 0.4 (5)	0.7 ± 1.6 (6)
	x	0 ± 0 (6)	0.2 ± 0.4 (6)	0.5 ± 0.8 (6)	0.5 ± 0.8 (6)

S2 Table E. Mean (SD) values for the collembolan species in 2014. X: extreme drought treated, C: control sites.

Collembola species	C	X
Most frequent species	mean (SD) of individuals	
Arrhopalites caecus (Tullberg, 1871)	13.3 (42.2)	2.6 (9.8)
Entomobrya nigriventris Stach,1930	543.4 (928.3)	259.5 (257.5)
Proisotoma minuta (Tullberg, 1871)	88.2 (207.6)	7.1 (26.3)
Sphaeridia pumilis (Krausbauer, 1898)	45.4 (64.2)	0.5 (1)
Rare species		
Brachystomella curvula Gisin, 1948	1 (2.4)	0.3 (0.8)
Ceratophysella succinea (Gisin, 1949)		0.04 (0.2)
Cyphoderus albinus Nicolet, 1842	0.04 (0.2)	0.9 (3.2)
Entomobrya multifasciata (Tullberg, 1871)	0.04 (0.2)	0.3 (0.6)
Folsomia candida (Willem, 1902)		0.04 (0.2)
Heteromurus nitidus (Templeton, 1835)	0.04 (0.2)	
Lepidocyrtus cyaneus Tullberg, 1871	0.04 (0.2)	0.04 (0.2)
Orchesella taurica (Stach, 1960)		0.1 (0.3)
Protaphorura serbica (Loksa & Bogojevic, 1967)	0.1 (0.6)	
Sminthurus viridis (Linnaeus, 1758)	0.4 (0.8)	0.2 (0.5)
Sminthurus mulitpunctatus Schäffer, 1896	0.04 (0.2)	
Sminthurus maculatus Tömösváry, 1883	0.04 (0.2)	
Willowsia buski (Lubbock,1869)		0.1 (0.3)
Xenylla maritima Tullberg, 1869	0.2 (0.5)	0.2 (0.4)