

Appendix S2. Brewer, J.S. Mesophication or Densification? Relative effects of tree leaf litter transplantation and C4 grass removal on fire behavior in a restored oak woodland. Meteorological data on the day of the experimental subplot fires on March 18, 2025.

Photog	time of ignition	relative humidity		mean temp C	min temp C	max temp C	sd temp C	min rh			
		air temp C	%					ave rh %	%	max rh	sd rh%
M01	1142	19.4	51	17.49	12.22	21.67	2.47	55.37	47	67	5.52
M02	1158	20.0	51	17.49	12.22	21.67	2.47	55.37	47	67	5.52
M03	1121	17.8	53	17.49	12.22	21.67	2.47	55.37	47	67	5.52
m04	1136	18.3	52	17.49	12.22	21.67	2.47	55.37	47	67	5.52
M05	1100	16.7	55	17.49	12.22	21.67	2.47	55.37	47	67	5.52
M06	957	15.0	62	17.49	12.22	21.67	2.47	55.37	47	67	5.52
M07	1223	20.6	49	17.49	12.22	21.67	2.47	55.37	47	67	5.52
M08	938	12.8	66	17.49	12.22	21.67	2.47	55.37	47	67	5.52
M09	1040	16.7	57	17.49	12.22	21.67	2.47	55.37	47	67	5.52
m10	1126	18.3	53	17.49	12.22	21.67	2.47	55.37	47	67	5.52
m11	1306	21.7	47	17.49	12.22	21.67	2.47	55.37	47	67	5.52
m12	1007	16.1	60	17.49	12.22	21.67	2.47	55.37	47	67	5.52
m13	1027	16.7	58	17.49	12.22	21.67	2.47	55.37	47	67	5.52
m14	1203	20.0	51	17.49	12.22	21.67	2.47	55.37	47	67	5.52
m15	1014	16.7	60	17.49	12.22	21.67	2.47	55.37	47	67	5.52
m16	1048	16.7	56	17.49	12.22	21.67	2.47	55.37	47	67	5.52
m17	1115	17.2	53	17.49	12.22	21.67	2.47	55.37	47	67	5.52
m18	1108	16.7	54	17.49	12.22	21.67	2.47	55.37	47	67	5.52
m19	1045	16.7	56	17.49	12.22	21.67	2.47	55.37	47	67	5.52
m20	1018	16.7	59	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R02	917	12.2	67	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R03	1228	21.1	48	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R04	1140	18.9	52	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R05	1219	20.6	49	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R06	1103	16.7	54	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R07	941	13.3	65	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R09	950	13.9	64	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R10	1323	21.7	47	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R11	1215	20.6	50	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R12	1232	21.1	48	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R13	1002	15.6	61	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R14	1210	20.0	50	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R15	1023	16.7	59	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R16	1031	16.7	58	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R17	1053	16.7	55	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R18	1110	17.2	54	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R19	1035	16.7	57	17.49	12.22	21.67	2.47	55.37	47	67	5.52
R20	954	14.4	63	17.49	12.22	21.67	2.47	55.37	47	67	5.52

subplot number	Wind direction		Wind speed		source	grass treatment
	1330 kph	1330 degrees	0900 kph	0900 degrees		
M01	25.75	197	12.87		194 mesophie removed	
M02	25.75	197	12.87		194 mesophie not removed	
M03	25.75	197	12.87		194 mesophie removed	
m04	25.75	197	12.87		194 mesophie not removed	
M05	25.75	197	12.87		194 mesophie removed	
M06	25.75	197	12.87		194 mesophie not removed	
M07	25.75	197	12.87		194 mesophie removed	
M08	25.75	197	12.87		194 mesophie not removed	
M09	25.75	197	12.87		194 mesophie not removed	
m10	25.75	197	12.87		194 mesophie not removed	
m11	25.75	197	12.87		194 mesophie not removed	
m12	25.75	197	12.87		194 mesophie not removed	
m13	25.75	197	12.87		194 mesophie removed	
m14	25.75	197	12.87		194 mesophie removed	
m15	25.75	197	12.87		194 mesophie not removed	
m16	25.75	197	12.87		194 mesophie removed	
m17	25.75	197	12.87		194 mesophie removed	
m18	25.75	197	12.87		194 mesophie removed	
m19	25.75	197	12.87		194 mesophie removed	
m20	25.75	197	12.87		194 mesophie not removed	
R02	25.75	197	12.87		194 restored not removed	
R03	25.75	197	12.87		194 restored not removed	
R04	25.75	197	12.87		194 restored not removed	
R05	25.75	197	12.87		194 restored not removed	
R06	25.75	197	12.87		194 restored not removed	
R07	25.75	197	12.87		194 restored not removed	
R09	25.75	197	12.87		194 restored not removed	
R10	25.75	197	12.87		194 restored not removed	
R11	25.75	197	12.87		194 restored removed	
R12	25.75	197	12.87		194 restored removed	
R13	25.75	197	12.87		194 restored removed	
R14	25.75	197	12.87		194 restored removed	
R15	25.75	197	12.87		194 restored removed	
R16	25.75	197	12.87		194 restored removed	
R17	25.75	197	12.87		194 restored removed	
R18	25.75	197	12.87		194 restored removed	
R19	25.75	197	12.87		194 restored removed	
R20	25.75	197	12.87		194 restored removed	

Abbreviation	Description
subplot number	Subplot identifying code
time of ignition	Time of ignition (24 hr)
air temp C	Ambient air temperature at the time the subplot was burned
relative humidity %	Relative humidity
mean temp C	Mean ambient air temperature during the burns
min temp C	Minimum ambient air temperature during the burns

max temp C	Maximum ambient air temperature during the burns
sd temp C	Standard deviation of ambient air temperature during the burns
ave rh %	Mean relative humidity during the burns
min rh %	Minimum relative humidity during the burns
max rh	Maximum relative humidity during the burns
sd rh%	Standard deviation of relative humidity during the burns
Wind speed 1330 kph	Wind speed at 1330 hrs, after completion of burns
Wind direction 1330 degrees	Wind direction at 1330 hrs, after completion of burns (0=360 = N; 180 = S)
Wind speed 0900 kph	Wind speed at 0900 hrs, after completion of burns
Abbreviation	Description
Wind direction 0900 degrees	Wind direction at 0900 hrs, after completion of burns (0=360 = N; 180 = S)
source	Plot source type. Mesophied = Old control or new control; meso-thinned = new treated and restored
grass treatment	C4 grass clipping treatment; removed = clipped with clippings removed; not removed =