

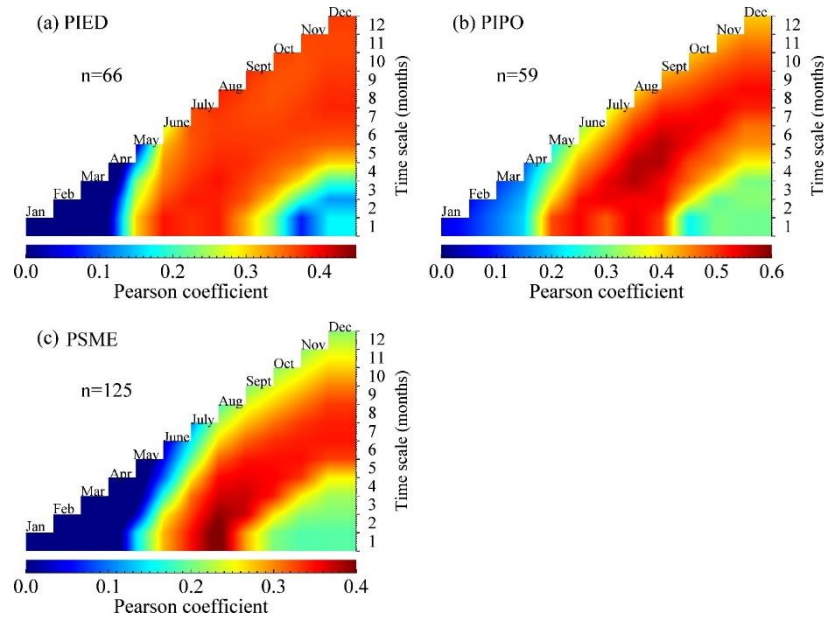


Figure S1. The distribution of Pearson correlation coefficients between Ring Width Index (RWI) and Enhanced Vegetation Index (EVI).

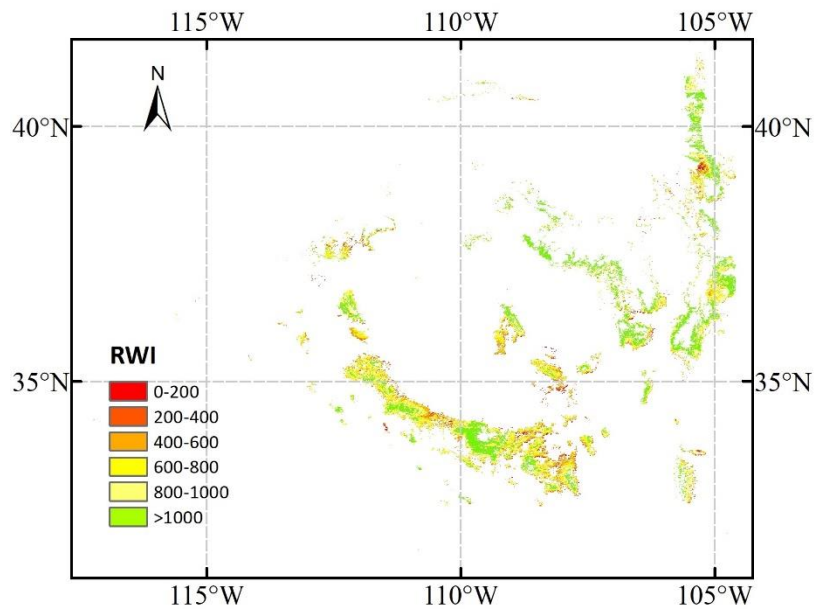


Figure S2. Ring Width Index (RWI) distribution of Ponderosa pine (PIPO) in 2005 after drought, There were still 65.3% of the PIPO pixels with RWI less than 1000 indicating that forest growth was not full recovery by drought.

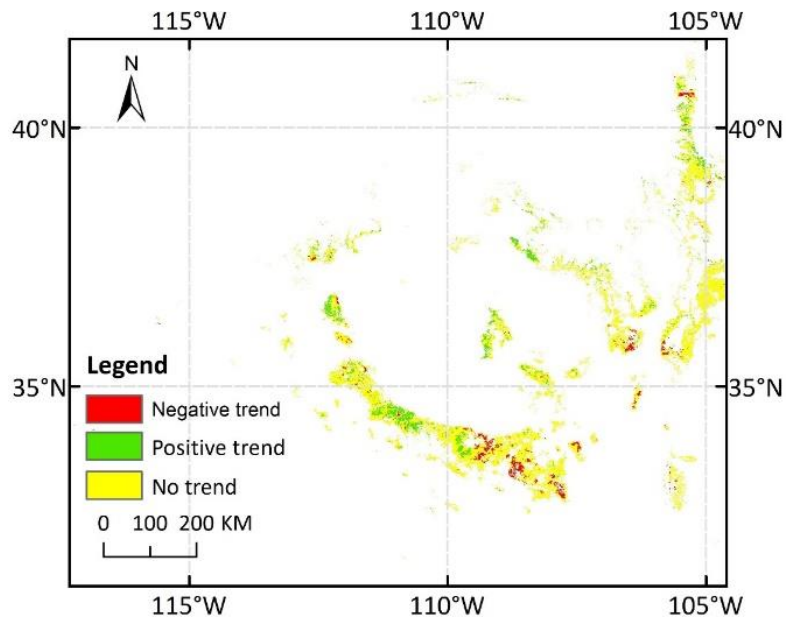


Figure S3. Locations of forest with positive , negative and no (RWI) trend from 2001 to 2017
($P < 0.05$)

Table S1. Pearson correlation coefficients between NDVI and RWI in PIED

12												0.225
11											0.234	0.238
10										0.245	0.248	0.282
9									0.257	0.259	0.292	0.299
8								0.244	0.272	0.304	0.309	0.309
7							0.195	0.265	0.320	0.322	0.319	0.303
6						0.079	0.225	0.324	0.339	0.331	0.314	0.277
5					-0.125	0.119	0.312	0.347	0.350	0.329	0.291	0.241
4				-0.275	-0.114	0.270	0.345	0.361	0.351	0.308	0.258	0.177
3			-0.311	-0.314	0.129	0.327	0.365	0.367	0.336	0.282	0.198	0.079
2		-0.308	-0.372	-0.149	0.251	0.363	0.376	0.354	0.320	0.230	0.092	0.040
1	-0.097	-0.397	-0.259	0.010	0.322	0.390	0.359	0.346	0.286	0.124	0.040	0.039
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec

Table S2. Pearson correlation coefficients between NDVI and RWI in PIPO

12												0.255
11											0.284	0.278
10										0.309	0.313	0.318
9									0.334	0.344	0.361	0.343
8								0.329	0.377	0.400	0.393	0.357
7							0.296	0.378	0.444	0.441	0.414	0.335
6						0.232	0.348	0.459	0.494	0.470	0.398	0.267
5					0.138	0.276	0.439	0.522	0.534	0.463	0.331	0.185
4				0.067	0.160	0.373	0.515	0.575	0.541	0.402	0.247	0.093
3			0.036	0.062	0.248	0.459	0.584	0.597	0.491	0.319	0.146	-0.002
2		0.024	0.012	0.126	0.338	0.544	0.623	0.554	0.422	0.211	0.025	-0.024
1	0.071	-0.027	0.062	0.191	0.448	0.602	0.583	0.490	0.339	0.047	0.004	-0.047
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec

Table S3. Pearson correlation coefficients between NDVI and RWI in PSME

12												0.135
11											0.148	0.165
10										0.150	0.182	0.202
9									0.143	0.188	0.223	0.245
8								0.117	0.184	0.234	0.271	0.291
7							0.057	0.161	0.236	0.286	0.321	0.292
6						-0.017	0.097	0.220	0.296	0.341	0.325	0.272
5					-0.089	0.011	0.160	0.292	0.358	0.346	0.312	0.232
4				-0.145	-0.078	0.067	0.246	0.367	0.367	0.338	0.281	0.163
3			-0.145	-0.153	-0.045	0.160	0.347	0.381	0.364	0.314	0.216	0.104
2		-0.136	-0.158	-0.148	0.026	0.308	0.366	0.386	0.351	0.251	0.157	0.057
1	-0.116	-0.150	-0.156	-0.136	0.218	0.337	0.371	0.388	0.287	0.194	0.109	0.007
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec