

Table S1. General situation of experimental field of Chinese fir plantations in China.

No.	Latitude (N °)	Longitude (E °)	Elevation (m)	Slope (°)	¹ Soil type	Stand Age (a)	Density (plant ha ⁻¹)	MAT (°C)	MAP (mm)
1	27.75	113.07	521-551	8-27	Red loams	14	1883-2517	17.9	1686
2	20.15	109.75	525-533	5-8	Red loams	10	1825	23.5	2150
3	26.12	117.42	380	19-22	Red loams	20	2940	20.8	2157
4	26.62	117.97	250	20-23	Red loams	16	2760	20.7	2121
5	26.78	117.55	570	26-28	Red loams	23	2350	19.4	2304
6	26.71	117.47	387-521	20-25	Yellow loams	29	2000-2310	19.9	2212
7	26.35	117.21	692	25-35	Red loams	11	1600-2500	19.4	2242
8	27.36	118.50	355	24	Yellow loams	14	2080	19.0	2132
9	28.00	119.43	150	32	Red loams	16	2760	16.7	2079
10	26.91	117.88	385	28	Yellow loams	24	2120	19.7	2219
11	25.28	110.30	500	19-22	Red loams	28	2120-2760	20.1	2282
12	23.41	111.24	587-700	22-30	Red loams	18	1050-3275	21.5	2076
13	25.27	110.27	637	25-35	Red loams	32	2387-3555	19.1	2448
14	26.78	109.60	230	30	Red loams	10	2400	18.0	1322
15	27.23	113.44	226-230	17-22	Red loams	18	1225-2267	19.1	1827
16	27.74	114.68	350	22-27	Purplish loams	32	2562-3236	18.8	2129
17	27.63	114.56	200-450	23-38	Red loams	16	1800-2850	18.7	2156
18	27.57	114.57	200-234	22-30	Red loams	16	850-2400	19.0	2110
19	27.50	114.50	258	27	Red loams	15	2025	18.9	2147
20	27.91	119.15	320	17-19	Red loams	25	2500	17.7	2034
21	29.14	118.40	300	27-28	Red loams	13	2760-3150	18.2	2060

¹Classification of soil types according to soil taxonomy of the Ministry of Agriculture and Rural Affairs of the People's Republic of China.