

Table S1. Sites information with published archaeobotanical datasets during 5500–2200 cal BP in SLP.

NO	Site	Long	Lat.	Period	Location	References
1	Dadiwan	105.904	35.015	Yangshao	Gansu, Tianshui	[102]
2	Caikeding	106.135	34.530	Late Yangshao	Gansu, Tianshui	[69]
3	Chaijiaping	106.050	34.544	Late Yangshao	Gansu, Tianshui	[69]
4	Chunshuwan	105.197	34.716	Late Yangshao	Gansu, Tianshui	[69]
5	Douwashan	105.446	34.778	Late Yangshao	Gansu, Tianshui	[69]
6	Huidi'er	105.296	34.766	Late Yangshao	Gansu, Tianshui	[69]
7	Liujiadun	105.082	34.759	Late Yangshao	Gansu, Tianshui	[69]
8	Liujiaping	105.237	34.760	Late Yangshao	Gansu, Tianshui	[69]
9	Nuanquanshan	104.687	34.947	Late Yangshao	Gansu, Dingxi	[69]
10	Shangrenwan	105.311	34.730	Late Yangshao	Gansu, Tianshui	[69]
11	Shanpingli	105.545	34.786	Late Yangshao	Gansu, Tianshui	[69]
12	Shizidao	105.355	34.772	Late Yangshao	Gansu, Tianshui	[69]
13	Wayaoding	105.325	34.718	Late Yangshao	Gansu, Tianshui	[69]
14	Xiewanding	105.418	34.853	Late Yangshao	Gansu, Tianshui	[69]
15	Xishanping	105.672	34.526	Late Yangshao	Gansu, Tianshui	[69]
16	Yangjiaping	105.389	34.789	Late Yangshao	Gansu, Tianshui	[69]
17	Yingwuwa	105.083	34.907	Late Yangshao	Gansu, Tianshui	[69]
18	Yujiawa	105.076	34.720	Late Yangshao	Gansu, Tianshui	[69]
19	Zhoujiawan	106.301	34.517	Late Yangshao	Gansu, Tianshui	[69]
20	Bupo	105.075	34.707	Majiayao	Gansu, Tianshui	[69]
21	Lixinzhen	105.081	34.909	Majiayao	Gansu, Tianshui	[69]
22	Shizhaocun	105.562	34.569	Majiayao	Gansu, Tianshui	[69]
23	Yangwa	105.327	34.703	Majiayao	Gansu, Tianshui	[69]
24	Fanjiacheng	105.651	34.710	Qijia	Gansu, Tianshui	[69]

25	Shuiquangou	105.125	34.615	Qijia	Gansu, Tianshui	[69]
26	Siping	105.400	34.789	Qijia	Gansu, Tianshui	[69]
27	Shipocun	105.388	34.764	Qijia	Gansu, Tianshui	[69]
28	Sishilipu	105.153	34.753	Qijia	Gansu, Tianshui	[69]
29	Weishuiyu	105.431	34.741	Qijia	Gansu, Tianshui	[69]
30	Wujiaping	105.092	34.781	Qijia	Gansu, Tianshui	[69]
31	Yierjidianguandi	105.276	34.766	Qijia	Gansu, Tianshui	[69]
32	Yuangudui	105.227	34.762	Qijia	Gansu, Tianshui	[69]
33	Zhengjiashanliang	105.447	34.845	Qijia	Gansu, Tianshui	[69]
34	Beiposi	105.105	34.714	Siwa	Gansu, Tianshui	[69]
35	Cheng'erping	105.202	34.754	Siwa	Gansu, Tianshui	[69]
36	Diantiandi	105.145	34.702	Siwa	Gansu, Tianshui	[69]
37	Dongjiaping	105.139	34.700	Siwa	Gansu, Tianshui	[69]
38	Laoyeshan	105.123	34.779	Siwa	Gansu, Tianshui	[69]
39	Longxixihetan	104.625	35.018	Siwa	Gansu, Longxi	[69]
40	Majiayao	105.118	34.702	Siwa	Gansu, Dingxi	[69]
41	Qinjiaping	105.181	34.700	Siwa	Gansu, Tianshui	[69]
42	Ruji	105.724	34.583	Siwa	Gansu, Tianshui	[69]
43	Sanjiaodi	105.376	34.785	Siwa	Gansu, Tianshui	[69]
44	Wanpenyao	105.190	34.745	Siwa	Gansu, Tianshui	[69]
45	Yaoshang	105.459	34.718	Siwa	Gansu, Tianshui	[69]
46	Anban	107.915	34.350	Yangshao	Shaanxi, Baoji	[70]
47	Zhouyuan(Wangjiazui)	107.773	34.440	Longshan	Shaanxi, Baoji	[49]
48	Zhutong	107.868	34.471	Zhouqin	Shaanxi, Baoji	[103]
49	Zaolinhetan	108.279	35.005	Shangzhou	Shaanxi, Xianyang	[104]
50	Gongbeiya	108.905	34.180	Yangshao	Shaanxi, Xi'an	[105]

51	Xinjie	109.147	34.254	Late Yangshao	Shaanxi, Xi'an	[50]
52	Yangguanzhai	109.024	34.473	Miaodigou	Shaanxi, Xi'an	[106]
53	Nanshantou	109.574	35.175	Middle Yangshao	Shaanxi, Weinan	[35]
54	Xinglefang	109.984	34.542	Middle Yangshao	Shaanxi, Weinan	[47]
55	Xiahe	109.699	35.131	Middle Yangshao	Shaanxi, Weinan	[47]
56	Dongyang	109.641	34.381	Yangshao	Shaanxi, Weinan	[107]
57	Muwanghe	109.692	35.144	Yangshao	Shaanxi, Weinan	[35]
58	Nanjiaokou	111.281	34.717	Yangshao	Henan, Sanmenxia	[108]
59	Yangshao	111.774	34.814	Yangshao	Henan, Sanmenxia	[51]
60	Shangmotou	110.543	34.566	Late Yangshao	Henan, Sanmenxia	[51]
61	Dongqiao	110.413	34.568	Late Yangshao	Henan, Sanmenxia	[51]
62	Dongshe	110.368	34.524	Late Yangshao	Henan, Sanmenxia	[51]
63	Sigeda	110.439	34.527	Late Yangshao	Henan, Sanmenxia	[51]
64	Mengcun	110.922	34.659	Late Yangshao	Henan, Sanmenxia	[51]
65	Yanzhuang	110.749	34.361	Late Yangshao	Henan, Sanmenxia	[51]
66	Chengyan	110.936	34.469	Late Yangshao	Henan, Sanmenxia	[51]
67	Nanyuan	111.204	34.609	Late Yangshao	Henan, Sanmenxia	[51]
68	Renmazhai	111.199	34.656	Late Yangshao	Henan, Sanmenxia	[51]
69	Lucun	111.156	34.704	Late Yangshao	Henan, Sanmenxia	[51]
70	Wuyuan	111.056	34.666	Late Yangshao	Henan, Sanmenxia	[51]
71	Duzhong	111.801	34.674	Late Yangshao	Henan, Sanmenxia	[51]
72	Xiangshi	110.592	34.508	Longshan	Henan, Sanmenxia	[51]
73	Qianling	110.838	34.411	Longshan	Henan, Sanmenxia	[51]
74	Nantan	110.871	34.476	Longshan	Henan, Sanmenxia	[51]
75	Zhangmao	111.369	34.720	Longshan	Henan, Sanmenxia	[51]
76	Duanjiazhai	111.150	34.656	Longshan	Henan, Sanmenxia	[51]

77	Caocun	111.149	34.647	Longshan	Henan, Sanmenxia	[51]
78	Buzhaozhai	111.750	34.822	Longshan	Henan, Sanmenxia	[51]
79	Lusi	111.801	34.672	Longshan	Henan, Sanmenxia	[51]
80	Laohutou	110.909	34.670	Shangzhou	Henan, Sanmenxia	[51]
81	Jiacunzhaizi	110.743	34.349	Shangzhou	Henan, Sanmenxia	[51]
82	Yanhuoya	110.713	34.322	Shangzhou	Henan, Sanmenxia	[51]
83	Sanshengcun	110.920	34.569	Shangzhou	Henan, Sanmenxia	[51]

Table S2. Charred plant seeds identified from the 27 archaeological sites during 5500–2200 cal BP in Baoji.

Site	Culture	Crop					Weed	Total	Location
		Setaria italica	Panicum miliaceum	Oryza Sativa	Triticum aestivum	Hordeum vulgare			
Baguankou	Miaodigou	65	9	7	0	0	47	128	Shaanxi, Longxian
Gaojiahe	Miaodigou	254	37	0	0	0	22	313	Shaanxi, Fengxiang
Guanmaotou	Miaodigou	62	5	0	0	0	15	82	Shaanxi, Fengxiang
Madaokou	Miaodigou	40	23	0	0	0	44	107	Shaanxi, Fengxiang
Maizaoyu	Miaodigou	57	3	0	0	0	86	146	Shaanxi, Longxian
Qiyang	Miaodigou	155	122	0	0	0	102	381	Shaanxi, Fufeng
Shuigou	Miaodigou	123	15	0	0	0	48	186	Shaanxi, Fengxiang
Wangjiazui	Miaodigou	193	10	0	0	0	13	216	Shaanxi, Fufeng
Xinpingsi	Miaodigou	203	28	1	0	0	8	240	Shaanxi, Longxian
Yuanzitou	Miaodigou	10144	5855	1	0	0	250	16250	Shaanxi, Longxian
Anban	Late Yangshao	96	5	0	0	0	61	162	Shaanxi, Fufeng
Bianjiazhuang	Late Yangshao	229	40	27	0	0	105	401	Shaanxi, Longxian
Chaojiagou	Late Yangshao	21	2	0	0	0	19	42	Shaanxi, Fengxiang
Dingtong	Late Yangshao	21	2	0	0	0	21	44	Shaanxi, Fufeng
Hengshui	Late Yangshao	30	5	0	0	0	14	49	Shaanxi, Fengxiang

Xiaoyuan	Late Yangshao	69	19	0	0	0	49	137	Shaanxi, Fengxiang
Daxin	Longshan	14	3	0	0	0	22	39	Shaanxi, Fengxiang
Madaokou	Longshan	45	1	0	0	0	70	116	Shaanxi, Fengxiang
Maizaoyu	Longshan	212	37	24	0	0	25	298	Shaanxi, Longxian
Mogouyuan	Longshan	350	139	20	0	0	107	616	Shaanxi, Longxian
Shuang'an	Longshan	51	4	0	1	1	26	83	Shaanxi, Fufeng
Shuigou	Longshan	98	10	0	0	0	45	153	Shaanxi, Fengxiang
Xiaoyuan	Longshan	7	0	0	0	0	6	13	Shaanxi, Fengxiang
Xinpingsi	Longshan	266	79	2	0	0	32	379	Shaanxi, Longxian
Yaobai	Longshan	39	3	0	0	0	20	62	Shaanxi, Fufeng
Yaozi'ao	Longshan	200	11	1	0	0	134	346	Shaanxi, Fengxiang
Yuxiang	Longshan	77	3	11	0	0	107	198	Shaanxi, Fengxiang
Baguankou	Zhou-Qin	148	57	0	16	0	136	357	Shaanxi, Longxian
Daxin	Zhou-Qin	140	6	0	685	0	55	886	Shaanxi, Fengxiang
Lijiagou	Zhou-Qin	8	0	0	2	0	1	11	Shaanxi, Fengxiang
Lujiacun	Zhou-Qin	15000	2000	0	12	0	60	17072	Shaanxi, Fufeng
Shenjiazui	Zhou-Qin	230	29	1	131	0	43	434	Shaanxi, Longxian
Tiezhang	Zhou-Qin	182	8	0	0	0	50	240	Shaanxi, Fufeng
Yaoziao	Zhou-Qin	33	3	0	4	0	42	82	Shaanxi, Fengxiang
Yuxiang	Zhou-Qin	33	2	0	1	1	21	58	Shaanxi, Fengxiang
Zhouyuan(Fengchu)	Zhou-Qin	180	9	0	5	0	73	267	Shaanxi, Fufeng

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