

Table S3. Sites with evidence for the earliest co-occurrence of domesticated millet and rice agriculture for various regions of China

Site	Province	Local Script	Culture	C14 Material	Code	Date	Error	Date	Cal. Start	Cal. Finish	Median	Calibrated 2 sigma	Comments	Crops	References
MIDDLE YELLOW RIVER															
Nanjiakou	Henan	南交口	Early Yangshao	Setaria	BA08804-H02	5550	40	5550±40	4460	4330	4395	4460-4330 cal. BC	Dates relate to earliest phase of occupation	Oryza, Setaria, Panicum	Qin (2009); Qin and Fuller (2009)
Nanjiakou	Henan	南交口	Early Yangshao	Setaria	BA08803-H01	5220	35	5220±35	4230	3960	4095	4230-3960 cal. BC	As above	Oryza, Setaria, Panicum	Qin (2009); Qin and Fuller (2009)
Nanjiakou	Henan	南交口	Early Yangshao	Panicum	BA08805-H02	5195	40	5195±40	4230	3940	4085	4230-3940 cal. BC	As above	Oryza, Setaria, Panicum	Qin (2009); Qin and Fuller (2009)
Nanjiakou	Henan	南交口	Early Yangshao	rice	BA08802-H01	5125	35	5125±35	3990	3790	3890	3990-3790 cal. BC	As above	Oryza, Setaria, Panicum	Qin (2009); Qin and Fuller (2009)
Xipo	Henan	西坡	Miaodigou I - Middle Yangshao	Not C14 dated					4000	3500	3750	est. 4000-3500 BC	No C14 date reported.	Oryza, Setaria, Panicum	Ma (2005), 100-101; Weiskopf (2014)
Yuangqiao	Henan	袁桥	Middle to Late Yangshao	No date recorded	N/A				4000	3000	3500	est. 4000-3000 BC	No C14 date reported.	Oryza, Setaria, Panicum	Fuller and Zhang (2007)
Xiangjiawan	Shaanxi	向家湾	Late Yangshao	No Date Reported	N/A				5100	3000	4050	est. 5100-3000 BC		Oryza, Setaria, ?Panicum	Lui et al., (2008: site 26), 175; Shang et al., (2012)
Xiangjiawan	Shaanxi	向家湾	Late Yangshao	No Date Reported	N/A				5100	3000	4050	est. 5100-3000 BC		Oryza, Setaria, ?Panicum	Lui et al., (2008: site 26), 175; Shang et al., (2012)
Xiangjiawan	Shaanxi	向家湾	Late Yangshao	No Date Reported	N/A				5100	3000	4050	est. 5100-3000 BC		Oryza, Setaria, ?Panicum	Lui et al., (2008: site 26), 175; Shang et al., (2012)
Xiangjiawan	Shaanxi	向家湾	Late Yangshao	No Date Reported	N/A				5100	3000	4050	est. 5100-3000 BC		Oryza, Setaria, ?Panicum	Lui et al., (2008: site 26), 175; Shang et al., (2012)
Xingdefang	Shaanxi	兴乐坊	Miaodigou	Phytolith	Beta-409349	5110	30	5110±30	3980	3790	3885	3980-3790 cal. BC		Oryza, Setaria, Panicum	Zuo et al. (2016, table 1); Liu et al., (2011)
Xingdefang	Shaanxi	兴乐坊	Miaodigou	Charcoal	Beta-392838	4800	30	4800±30	3650	3520	3585	3650-3520 cal. BC		Oryza, Setaria, Panicum	Zuo et al. (2016, table 1); Liu et al., (2011)
Dingdian	Shanxi	丁店	Middle to Late Yangshao						4000	3300	3650	est. 4000-3300 BC	No C14 date reported.	Oryza, Setaria, Panicum	Song (2011)
Yadi	Shanxi	崖底	Longshan	Not C14 dated					2500	1900	2200	2500-1900 cal. BC	Cultural layers dating to the Erlitou were also present but didn't contain rice.	Oryza, Setaria	Jiang (2011)
Zigan	Shanxi	子干	Erlitou	Not C14 dated					1900	1500	1700	1900-1500 cal. BC		Oryza, Setaria	Jiang (2011)
Lixian	Gansu	礼县	Miaodigou	No Date Reported	N/A				4000	3000	3500	4000-3000 cal. BC	Rice reported in very low numbers at Lixian II & III. As below possibly intrusive.	Oryza, Setaria, Panicum	Ji (2009); Li et al., (2015)
Houguanzhai	Gansu	后官寨	Late Yangshao, Middle Majiayao	Not recorded	Not reported	4230	60	4230±60 BP	3010	2620	2815	3010-2620 cal. BC	Rice grains were in very low numbers in Yangshao layers and charred seeds of rice were recovered from overlying deposits dated to c. 500-1000 AD. The C14 dates appear Early Longshan.	As above	Zhou, X. et al., (2011)
Houguanzhai	Gansu	后官寨	Late Yangshao, Middle Majiayao	Not recorded	Not reported	4170	50	4170±50 BP	2900	2600	2750	2900-2600 cal. BC	As above.	As above	Zhou, X. et al., (2011)
Houguanzhai	Gansu	后官寨	Late Yangshao, Middle Majiayao	Not recorded	Not reported	4160	60	4160±60 BP	2890	2580	2735	2890-2580 cal. BC	As above.	Oryza, Setaria, Panicum	Zhou, X. et al., (2011)
Houguanzhai	Gansu	后官寨	Late Yangshao, Middle Majiayao	Not recorded	Not reported	4150	60	4150±60 BP	2890	2570	2730	2890-2570 cal. BC	As above	As above	Zhou, X. et al., (2011)
SHANDONG															
Dongpan	South Shandong	东盘	Beixin	Rice grain	Beta-344113	5140	30	5140±30 BP	4040	3800	3920	4040-3800 cal. BC	Only 2 rice grains were recovered. But also only one Panicum and one Setaria. Rice domestication status unknown.	Oryza, Setaria, Panicum	Jin et al. (2016); Wang et al. (2012)
Beiqian	East Shandong	北阡	Dawenkou	Rice	Beta-344115	4340	30	4340±30 BP	3030	2890	2960	3030-2890 cal. BC	Only 2 grains of rice, but many more Panicum and Setaria. Rice grain looks domesticated.	Oryza, Setaria, Panicum	Jin et al. (2016)
Xujiaocun	South Shandong	徐家村	Late Dawenkou/Early Longshan	Not C14 dated	No date				3000	2600	2800	3000-2600 cal. BC	1 Oryza, 2 Setaria, 3 panicum	Oryza, Setaria, Panicum	Chen (2007)
Duanjiahe	South Shandong	段家河	Dawenkou/Longshan	Not C14 dated	No date				3000	2000	2500	3000-2000 cal. BC	Listed with Xilou below.	Oryza, Setaria, Panicum. Triticum + Hordeum	Liu et al., (2008: site 47, 176, site 40, 166)
Xilou	South Shandong	西陵	Dawenkou/Longshan	Not C14 dated	No date				3000	2000	2500	3000-2000 cal. BC		Oryza, Setaria	Lui et al., (2008: site 47, 176); IPIAC (2013); Henan Arch Cass (1995)
Dongpan	South Shandong	东盘	Late Longshan	Not C14 dated	No date				2600	2000	2300	2600-2000 cal. BC	Rice is well represented in these later layers	Oryza, Setaria, Panicum	d'Alpoim Guedes et al. (2015); Wang et al. (2011)
Zhaojiazhuang	Shandong	赵家庄	Late Longshan	Not C14 dated	No date				2600	2300	2450	2600-2300 cal. BC	Large quantities of Oryza and Setaria	Oryza, Setaria, Panicum	Jin et al. (2011); Barton et al. (2014)
Xuejiazhuang - Zhucheng	South Shandong	薛家庄村	Late Longshan	Not C14 dated	No date				2600	2000	2300	2600-2000 cal. BC	Only 4 grains of rice	Setaria, Panicum and Oryza	d'Alpoim Guedes et al. (2015); Jin et al., (2009)
Chenjiazhuang	Shandong	程家庄	Late Longshan	Not C14 dated	No date				2600	1900	2250	2600-1900 cal. BC		Oryza, Setaria, Panicum	Song (2011)
Tonglin	Central Shandong	桐林	Late Longshan	Not C14 dated	No date				2600	1900	2250	2600-1900 cal. BC	Large amounts of charred grain	Oryza, Setaria, Panicum	Song (2011)
Yangjiaquan	East Shandong	杨家圈	Late Dawenkou	Not C14 dated?	No date				2500	1850	2175	2500-1850 cal. BC	No formal identification of millet species	Oryza and millets identified from pottery impressions.	Luan et al. (1997; 2007); Crawford et al. (2005; 2006); d'Alpoim Guedes et al. (2015)
Liangchenzhen	South Shandong	西城镇	Longshan	Rice grain	TO-10206	3610	60	3610±60 BP	2150	1770	1960	2150-1770 cal. BC	Rice and foxtail are well represented	Oryza, Setaria, Panicum	Crawford et al. (2005)
ANHUI															
Yuchisi	Anhui	附近寺	Late Dawenkou	Not C14 dated	No date				2800	2600	2700	2800-2600 cal. BC		Oryza, Setaria	Zhao 2007; Wang and Jia, 1998; Liu et al., 2008: site 56, 165
MIDDLE YANGTZE/HAN BASIN															
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	wood	KIT-3047	5540	60	5540±60	4500	4260	4380	4500-4260 cal. BC	Dates contemporary with earlier rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	wood	KIT-3041	5540	50	5540±50	4490	4320	4405	4490-4320 cal. BC	Dates contemporary with earlier rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	wood	KIT-3052	5480	90	5480±90	4500	4050	4275	4500-4050 cal. BC	Dates broadly contemporary with rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	wood	KIT-3048	5470	70	5470±70	4460	4070	4265	4460-4070 cal. BC	Dates broadly contemporary with rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	wood	KIT-3054	5450	40	5450±40	4360	4230	4295	4360-4230 cal. BC	Dates broadly contemporary with rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	wood	KIT-3046	5450	50	5450±50	4450	4160	4305	4450-4160 cal. BC	Dates broadly contemporary with rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	wood	KIT-3049	5370	50	5370±50	4340	4050	4195	4340-4050 cal. BC	Dates contemporary with later rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	wood	KIT-3050	5360	60	5360±60	4340	4040	4190	4340-4040 cal. BC	Dates contemporary with later rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	wood	KIT-3042	5360	30	5360±30	4320	4050	4190	4320-4050 cal. BC	Dates contemporary with later rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	wood	KIT-3043	5350	40	5350±40	4330	4050	4190	4330-4050 cal. BC	Dates contemporary with later rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	wood	KIT-3045	5180	30	5180±30	4045	3955	4000	4045-3955 cal. BC	Dates contemporary with latest rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	charred fragment	KIT-3051	4900	30	4900±30	3760	3740	3750	3760-3740 cal. BC	Dates are later than rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	wood	KIT-3044	4890	70	4890±70	3930	3870	3900	3930-3870 cal. BC	Dates contemporary with latest rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Tangjiagang (Pre-Daxi)	plant fragments	KIT-3053	4830	50	4830±50	3710	3510	3610	3710-3510 cal. BC	Dates are later than rice dates	Oryza, Setaria	Nakamura (2007)
Chengtoushan	Henan	坡头山	Early Daxi	rice grain	NUTA2-2200	5620	60	5620±60	4590	4340	4465	4590-4340 cal. BC	No Panicum present	Oryza, Setaria	Nasu et al., (2007)
Chengtoushan	Henan	坡头山	Early Daxi	rice grain	NUTA2-2195	5540	45	5540±45	4470	4320	4395	4470-4320 cal. BC	As above	Oryza, Setaria	Nasu et al., (2007)
Chengtoushan	Henan	坡头山	Early Daxi	rice grain	NUTA2-2201	5490	50	5490±50	4450	4250	4350	4450-4250 cal. BC	As above	Oryza, Setaria	Nasu et al., (2007)
Chengtoushan	Henan	坡头山	Early Daxi	rice grain	NUTA2-2199	5480	45	5480±45	4450	4240	4345	4450-4240 cal. BC	As above	Oryza, Setaria	Nasu et al., (2007)
Chengtoushan	Henan	坡头山	Early Daxi	rice grain	NUTA2-2196	5400	45	5400±45	4350	4060	4205	4350-4060 cal. BC	As above	Oryza, Setaria	Nasu et al., (2007)
Chengtoushan	Henan	坡头山	Early Daxi	rice grain	NUTA2-2202	5390	45	5390±45	4340	4050	4195	4340-4050 cal. BC	As above	Oryza, Setaria	Nasu et al., (2007)
Chengtoushan	Henan	坡头山	Early Daxi	rice grain	NUTA2-2194	5380	60	5380±60	4340	4050	4195	4340-4050 cal. BC	As above	Oryza, Setaria	Nasu et al., (2007)
Chengtoushan	Henan	坡头山	Early Daxi	rice grain	NUTA2-2193	5350	45	5350±45	4330	4040	4185	4330-4040 cal. BC	As above	Oryza, Setaria	Nasu et al., (2007)
Chengtoushan	Henan	坡头山	Early Daxi	rice grain	NUTA2-2277	5245	55	5245±55	4240	3960	4100	4240-3960 cal. BC	As above	Oryza, Setaria	Nasu et al., (2007)
Chengtoushan	Henan	坡头山	Early Daxi	rice grain	NUTA2-2278	5165	40	5165±40	4050	3800	3925	4050-3800 cal. BC	As above	Oryza, Setaria	Nasu et al., (2007)
Huitupo	Henan	灰土坡	Middle Yangshao	Not C14 dated					4000	3500	3750	est. 4000-3500 BC	Date estimated on cultural material.	Oryza, Setaria italica, Panicum millicearum	Fuller and Qin (n.d.); Peking University Bailang project
Baigang	Henan	八里岗	Early/Middle Yangshao	rice grain	BA111566	5350	25	5350±25	4320	4050	4185	4320-4050 cal. BC		Oryza, Setaria, Panicum	Deng et al. (2015)
Baigang	Henan	八里岗	Middle Yangshao	rice grain	BA081046	5085	35	5085±35	3970	3790	3880	3970-3790 cal. BC		Oryza, Setaria, Panicum	Deng et al. (2015)
Baigang	Henan	八里岗	Middle Yangshao	rice grain	BA081048	5035	35	5035±35	3950	3710	3830	3950-3710 cal. BC		Oryza, Setaria, Panicum	Deng et al. (2015)
SICHUAN CHINA (including initial spread of millets)															
Yingpanshan	Sichuan	营盘山	Pre-Baodun - Majiayao	No date					3200	2700	2950	3200-2700 cal. BC	No rice is reported from this earlier site	Setaria, Panicum	Zhao and Chen J (2011); D'Alpoim Guedes and Butler (2014)
Haxiu	Sichuan	哈休	Pre-Baodun	No date					3300	2700	3000	est. 4000-3500 BC	No rice is reported from this earlier site	Setaria, Panicum	D'Alpoim Guedes (2011); Zhao (2008)
Guizhuangqiao	Sichuan	桂园桥	Pre-Baodun	No date					3000	2700	2850	3000-2700 cal. BC	No rice is reported from this earlier site	Setaria, Panicum	D'Alpoim Guedes and Butler (2014); Aba et al. (2007)
Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA110058	4060	30	4060±30	2840	2480	2660	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)
Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA110062	4015	35	4015±35	2630	2460	2545	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)

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Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA110049	4010	50	4010±50	2840	2340	2590	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)
Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA110061	4005	30	4005±30	2580	2460	2520	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)
Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA110059	4000	30	4000±30	2580	2460	2520	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)
Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA110047	3890	35	3890±35	2480	2230	2355	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)
Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA110060	3885	30	3885±30	2470	2280	2375	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)
Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA111215	3840	25	3840±25	2460	2200	2330	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)
Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA110048	3830	30	3830±30	2460	2150	2305	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)
Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA110052	3830	30	3830±30	2460	2150	2305	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)
Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA111219	3735	20	3735±20	2210	2040	2125	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)
Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA110050	3730	30	3730±30	2270	2030	2150	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)
Baodun	Sichuan	宝墩	Baodun Phase 1	rice grain	BA110051	3705	30	3705±30	2200	1980	2090	est. 4000-3500 BC		Oryza, Setaria	D'Alpoim Guedes and Butler (2014); D'Alpoim et al. (2013b)