



Figure S1. The regionalization map of soil erosion on the Loess Plateau which provide a coarse distribution of loess tableland (red line). (Image source: Yulu Zhou. Atlas of soil and water conservation in the Yellow River Basin[M]. Seismological Press, 2012).

Table S1. List of detected erosion-vulnerable areas.

ID	Longitude	Latitude	County	Subregion	Width (m)
1	110°35'24.9240"	35°51'22.1452"	Xiangning	NSX	16.14
2	110°35'44.9462"	35°51'28.6570"	Xiangning	NSX	11.22
3	110°37'42.3324"	35°53'02.6466"	Xiangning	NSX	7.86
4	110°36'49.8941"	35°53'28.5851"	Xiangning	NSX	10.44
5	110°36'29.8644"	35°53'32.9960"	Xiangning	NSX	9.55
6	110°35'13.4808"	35°52'14.1225"	Xiangning	NSX	19.18
7	110°43'13.6769"	35°59'18.5982"	Jixian	WSX	83.29
8	110°44'55.2337"	36°02'20.5517"	Jixian	WSX	21.68
9	110°41'54.4717"	36°02'49.4590"	Jixian	WSX	11.95
10	110°41'36.0938"	36°02'42.8359"	Jixian	WSX	52.64
11	110°40'06.3792"	36°01'25.3951"	Jixian	WSX	15.48
12	110°37'33.2665"	35°57'46.6984"	Jixian	WSX	24.03
13	110°40'01.7956"	36°03'44.8209"	Jixian	WSX	8.56
14	110°33'34.8418"	36°03'23.8686"	Jixian	WSX	67.04
15	110°33'34.1573"	36°03'49.3403"	Jixian	WSX	7.03
16	110°34'24.4048"	36°03'59.6184"	Jixian	WSX	11.43
17	110°41'08.3358"	36°08'28.0465"	Jixian	WSX	8.16
18	110°38'17.3839"	36°25'35.7651"	Danling	WSX	7.75
19	110°39'45.9918"	36°25'21.5164"	Danling	WSX	26.10
20	110°40'02.2491"	36°25'25.3720"	Danling	WSX	17.94
21	110°45'21.7364"	36°24'53.9481"	Danling	WSX	36.81
22	110°45'05.4281"	36°25'27.0847"	Danling	WSX	10.78
23	110°44'51.1744"	36°25'59.0357"	Danling	WSX	10.59
24	110°44'31.5844"	36°26'51.7402"	Danling	WSX	51.15
25	110°44'18.5665"	36°21'22.3129"	Danling	WSX	16.22
26	110°46'18.1825"	36°21'02.8660"	Danling	WSX	6.00
27	110°45'34.8141"	36°21'24.7277"	Danling	WSX	13.86
28	110°47'41.6288"	36°21'24.1191"	Danling	WSX	12.84
29	110°49'27.4342"	36°23'23.1594"	Danling	WSX	5.75
30	110°55'09.1294"	36°23'56.0918"	Puxian	WSX	14.96
31	110°53'49.7343"	36°25'28.0796"	Puxian	WSX	6.66
32	110°51'11.0888"	36°25'24.1346"	Danling	WSX	14.56
33	110°49'17.8134"	36°25'55.2077"	Danling	WSX	6.86
34	110°46'35.3099"	36°26'53.9941"	Danling	WSX	5.99
35	110°54'54.4352"	36°27'57.3379"	Puxian	WSX	6.25
36	110°58'32.4149"	36°25'47.5562"	Puxian	WSX	32.48
37	110°58'13.1628"	36°24'39.1972"	Puxian	WSX	18.44
38	111°03'50.8471"	36°23'28.9364"	Puxian	WSX	15.70
39	111°05'03.2498"	36°23'49.5067"	Puxian	WSX	8.93
40	111°12'12.3004"	36°26'00.8943"	Puxian	WSX	10.75
41	111°10'57.0901"	36°27'44.5344"	Puxian	WSX	6.87
42	111°05'36.9532"	36°29'00.9438"	Puxian	WSX	46.18
43	111°04'44.5477"	36°29'11.5603"	Puxian	WSX	32.94

44	110°58'45.5918"	36°29'40.8035"	Puxian	WSX	51.28
45	111°02'32.0531"	36°31'24.0788"	Puxian	WSX	98.52
46	110°58'09.1622"	36°31'32.4828"	Puxian	WSX	20.93
47	110°58'33.3941"	36°31'36.4066"	Puxian	WSX	60.52
48	110°59'35.1619"	36°31'29.6297"	Puxian	WSX	9.00
49	110°59'19.9299"	36°31'24.9330"	Puxian	WSX	38.22
50	111°01'22.3733"	36°31'19.6564"	Puxian	WSX	46.76
51	111°01'45.6897"	36°31'17.9373"	Puxian	WSX	96.13
52	111°02'04.7279"	36°31'25.7303"	Puxian	WSX	62.59
53	111°04'06.5983"	36°32'51.9061"	Puxian	WSX	19.17
54	111°03'48.9035"	36°32'43.4516"	Puxian	WSX	20.40
55	110°53'49.2287"	36°33'20.3510"	Xixian	NSX	20.14
56	110°55'28.5298"	36°34'38.9040"	Xixian	NSX	14.53
57	110°56'30.8649"	36°35'54.0884"	Xixian	NSX	5.76
58	110°56'51.3072"	36°36'10.8897"	Xixian	NSX	5.39
59	110°57'03.1569"	36°36'32.9212"	Xixian	NSX	5.20
60	110°57'21.1020"	36°37'09.9995"	Xixian	NSX	70.68
61	110°58'34.0887"	36°37'52.4378"	Xixian	NSX	13.45
62	111°02'03.8078"	36°39'28.8267"	Xixian	NSX	13.74
63	110°46'31.0518"	36°35'20.1691"	Xixian	NSX	12.96
64	110°44'35.9121"	36°31'04.6107"	Daning	WSX	10.44
65	110°44'13.3295"	36°29'33.2565"	Daning	WSX	6.53
66	110°48'01.3752"	36°44'28.8600"	Xixian	NSX	37.63
67	110°48'54.3762"	36°42'22.1257"	Xixian	NSX	40.51
68	110°50'17.1044"	36°23'43.9664"	Daning	WSX	20.12
69	110°44'41.3779"	36°26'34.5584"	Daning	WSX	12.65
70	107°33'27.5121"	35°07'29.7761"	Lingtai	EGS	60.36
71	107°29'39.8051"	35°07'23.8813"	Lingtai	EGS	32.00
72	107°23'20.4646"	35°07'41.7174"	Lingtai	EGS	227.75
73	107°17'49.6065"	35°04'21.5084"	Lingtai	EGS	41.16
74	107°17'36.5271"	35°04'47.5912"	Lingtai	EGS	31.45
75	107°13'36.6013"	35°04'28.9137"	Lingtai	EGS	239.01
76	107°13'26.7770"	35°04'39.4669"	Lingtai	EGS	89.68
77	107°20'59.9196"	35°04'10.9189"	Lingtai	EGS	77.27
78	107°22'06.2358"	35°04'23.3795"	Lingtai	EGS	13.93
79	107°22'52.0892"	35°04'08.6589"	Lingtai	EGS	64.33
80	107°23'32.8545"	35°04'27.4909"	Lingtai	EGS	202.42
81	107°24'54.4225"	35°03'57.9681"	Lingtai	EGS	23.53
82	107°15'37.2495"	35°07'39.5212"	Lingtai	EGS	199.69
83	107°10'05.0067"	35°05'04.0264"	Lingtai	EGS	52.57
84	107°11'01.9121"	35°05'03.0048"	Lingtai	EGS	95.10
85	107°12'17.6261"	35°08'30.2075"	Lingtai	EGS	33.53
86	107°51'33.7386"	35°10'31.8164"	Changwu	EGS	39.27
87	107°50'21.8308"	35°10'59.6197"	Changwu	EGS	54.23
88	107°40'17.8699"	35°14'11.2553"	Changwu	EGS	50.00

89	107°47'43.5525"	35°15'12.9863"	Changwu	EGS	194.38
90	107°32'41.7944"	35°16'58.6549"	Jingchuan	EGS	62.41
91	107°30'41.1898"	35°17'42.3617"	Jingchuan	EGS	136.51
92	107°37'59.3484"	35°16'50.4523"	Jingchuan	EGS	217.88
93	107°51'46.0232"	35°18'39.0811"	Ningxian	EGS	170.40
94	107°52'22.7500"	35°18'35.1187"	Ningxian	EGS	204.83
95	107°52'16.4940"	35°20'11.2576"	Ningxian	EGS	181.11
96	107°50'53.4896"	35°22'16.9061"	Ningxian	EGS	81.92
97	107°51'13.5410"	35°21'27.5992"	Ningxian	EGS	71.11
98	107°50'58.3295"	35°25'11.9018"	Ningxian	EGS	34.78
99	107°43'22.7583"	35°25'49.2887"	Ningxian	EGS	60.57
100	107°50'41.0029"	35°28'54.9840"	Ningxian	EGS	242.59
101	107°37'59.4130"	35°30'41.3137"	Xifeng	EGS	112.04
102	107°39'27.1074"	35°27'27.0219"	Xifeng	EGS	80.03
103	107°40'29.6607"	35°27'47.0069"	Xifeng	EGS	145.54
104	107°37'58.3011"	35°28'59.8795"	Xifeng	EGS	32.75
105	107°38'15.3092"	35°29'38.1423"	Xifeng	EGS	148.11
106	107°37'44.3642"	35°29'30.8336"	Xifeng	EGS	13.48
107	107°36'15.3434"	35°34'46.8850"	Xifeng	EGS	19.56
108	107°38'14.1279"	35°31'43.4712"	Xifeng	EGS	105.62
109	107°42'18.1291"	35°34'53.3774"	Xifeng	EGS	273.88
110	107°33'44.7758"	35°37'53.3589"	Xifeng	EGS	59.06
111	107°33'49.5834"	35°38'33.2304"	Xifeng	EGS	121.08
112	107°33'15.1295"	35°38'37.2597"	Xifeng	EGS	29.97
113	107°34'32.0919"	35°38'52.1037"	Xifeng	EGS	50.00
114	107°32'50.7688"	35°38'33.2428"	Xifeng	EGS	11.28
115	107°29'01.1285"	35°38'49.8537"	Zhenyuan	EGS	170.00
116	107°29'51.2480"	35°38'37.9988"	Zhenyuan	EGS	126.35
117	107°28'28.3577"	35°39'01.6041"	Zhenyuan	EGS	250.80
118	107°30'13.8278"	35°37'32.8804"	Zhenyuan	EGS	156.79
119	107°28'25.1195"	35°33'43.8413"	Zhenyuan	EGS	137.18
120	107°32'22.3450"	35°31'12.2212"	Zhenyuan	EGS	276.71
121	107°13'20.6755"	35°27'10.8748"	Jingchuan	EGS	297.77
122	107°10'28.4050"	35°26'03.2379"	Jingchuan	EGS	183.30
123	107°06'29.2695"	35°30'52.7497"	Zhenyuan	EGS	230.09
124	107°01'07.5382"	35°28'33.8620"	Kongdong	EGS	76.43
125	107°29'48.4092"	35°15'58.8269"	Jingchuan	EGS	80.20
126	107°28'32.4411"	35°17'16.8541"	Jingchuan	EGS	70.29
127	107°10'42.0010"	35°12'23.7416"	Lingtai	EGS	164.01
128	107°15'12.8461"	35°15'34.7110"	Jingchuan	EGS	53.97
129	107°25'14.4186"	35°17'36.6558"	Jingchuan	EGS	43.67
130	107°08'56.2338"	35°13'40.8385"	Chongxin	EGS	211.60
131	107°21'11.0647"	35°10'28.9996"	Lingtai	EGS	204.92
132	107°06'10.8064"	35°21'52.5366"	Chongxin	EGS	89.52
133	106°49'18.8301"	35°24'20.1771"	Kongdong	EGS	187.33

134	106°53'04.3683"	35°25'27.7528"	Kongdong	EGS	104.17
135	107°58'52.8849"	35°17'14.7680"	Zhengning	EGS	22.09
136	107°56'10.8764"	35°27'09.0579"	Ningxian	EGS	227.13
137	108°24'37.2661"	35°29'55.6018"	Zhengning	EGS	193.41
138	108°26'24.0149"	35°30'35.7458"	Zhengning	EGS	60.33
139	108°22'02.9539"	35°29'27.9304"	Zhengning	EGS	216.57
140	108°17'03.4648"	35°29'25.2274"	Ningxian	EGS	29.77
141	108°15'46.8455"	35°31'22.6479"	Ningxian	EGS	79.02
142	108°09'03.3292"	35°28'53.4256"	Ningxian	EGS	26.72
143	107°32'18.0025"	35°43'29.1570"	Xifeng	EGS	205.44
144	107°32'09.4548"	35°40'48.9518"	Xifeng	EGS	267.47
145	107°31'38.9918"	35°47'27.8266"	Xifeng	EGS	237.45
146	107°46'21.5464"	35°41'22.1356"	Xifeng	EGS	261.47
147	107°43'12.6674"	35°39'25.6728"	Xifeng	EGS	215.83
148	107°53'35.3696"	35°37'05.6069"	Ningxian	EGS	205.90
149	107°52'13.4848"	35°44'14.6556"	Hushui	EGS	122.27
150	107°42'58.4057"	35°36'39.6672"	Xifeng	EGS	185.01
151	107°56'54.9366"	35°39'23.4828"	Ningxian	EGS	214.16
152	107°56'54.9921"	35°40'36.4498"	Ningxian	EGS	166.21
153	107°57'10.1479"	35°41'30.8042"	Hushui	EGS	93.40
154	107°56'47.2650"	35°38'53.6249"	Ningxian	EGS	204.88
155	107°57'07.7617"	35°44'00.0177"	Hushui	EGS	115.50
156	107°57'12.3636"	35°42'30.8411"	Hushui	EGS	291.24
157	107°57'34.4029"	35°35'14.6355"	Ningxian	EGS	259.50
158	107°53'42.2793"	35°43'18.8727"	Hushui	EGS	272.97
159	107°50'11.6626"	35°37'42.6478"	Xifeng	EGS	139.65
160	107°06'19.4154"	35°37'01.2806"	Zhenyuan	EGS	190.41
161	107°03'30.8024"	35°38'30.3572"	Zhenyuan	EGS	227.82
162	107°09'26.5056"	35°35'36.5139"	Zhenyuan	EGS	51.40
163	107°08'04.9283"	35°36'20.1921"	Zhenyuan	EGS	93.04
164	107°03'39.1839"	35°37'42.5264"	Zhenyuan	EGS	177.84
165	106°52'52.8869"	35°38'44.8605"	Zhenyuan	EGS	209.43
166	106°51'17.4620"	35°36'55.9894"	Kongdong	EGS	255.65
167	106°48'34.3476"	35°38'19.6815"	Kongdong	EGS	78.71
168	106°35'00.1409"	35°38'01.2488"	Kongdong	EGS	98.16
169	106°42'29.1608"	35°39'24.6075"	Kongdong	EGS	146.51
170	106°45'25.3391"	35°36'57.7226"	Kongdong	EGS	142.48
171	106°45'21.1749"	35°40'14.9830"	Kongdong	EGS	118.27
172	106°46'15.5881"	35°39'38.3365"	Kongdong	EGS	253.99
173	106°43'43.4874"	35°42'19.8924"	Pengyang	EGS	13.20
174	106°44'58.3801"	35°42'03.3776"	Zhenyuan	EGS	239.50
175	106°46'35.8944"	35°41'33.3554"	Zhenyuan	EGS	144.62
176	106°48'04.1899"	35°41'31.4449"	Zhenyuan	EGS	201.91
177	106°50'04.1958"	35°33'17.1139"	Kongdong	EGS	78.13
178	106°48'57.0980"	35°34'12.2786"	Kongdong	EGS	165.18

179	106°55'52.4506"	35°35'47.0935"	Zhenyuan	EGS	225.97
180	106°40'35.7472"	35°36'06.8112"	Kongdong	EGS	229.61
181	107°13'41.9887"	35°42'54.7875"	Zhenyuan	EGS	157.79
182	107°11'18.0613"	35°43'42.6993"	Zhenyuan	EGS	20.00
183	107°18'19.1481"	35°42'20.8457"	Zhenyuan	EGS	83.93
184	106°51'41.0757"	35°45'08.9215"	Pengyang	EGS	33.72
185	106°57'38.1859"	35°44'26.7541"	Zhenyuan	EGS	143.69
186	106°55'15.4383"	35°44'58.0372"	Zhenyuan	EGS	39.81
187	107°00'39.7806"	35°43'31.1640"	Zhenyuan	EGS	265.85
188	106°59'45.6982"	35°43'24.8968"	Zhenyuan	EGS	206.74
189	107°02'00.4552"	35°43'01.8972"	Zhenyuan	EGS	69.58
190	107°12'53.2912"	35°37'59.7682"	Zhenyuan	EGS	42.77
191	107°17'41.8302"	35°39'26.4976"	Zhenyuan	EGS	16.43
192	107°20'06.4481"	35°39'58.7207"	Zhenyuan	EGS	26.86
193	107°15'46.3268"	35°40'44.8344"	Zhenyuan	EGS	72.46
194	107°16'36.6838"	35°40'09.1305"	Zhenyuan	EGS	62.82
195	107°22'41.5379"	35°39'50.7878"	Zhenyuan	EGS	114.02
196	107°23'34.5791"	35°39'35.2888"	Zhenyuan	EGS	22.69
197	107°19'09.0705"	35°47'23.3104"	Zhenyuan	EGS	232.59
198	107°11'57.0069"	35°52'18.4290"	Zhenyuan	EGS	123.03
199	107°03'49.5264"	35°54'02.0083"	Zhenyuan	EGS	100.00
200	107°22'19.8132"	35°54'20.3110"	Zhenyuan	EGS	241.87
201	107°24'41.3338"	35°49'44.0763"	Zhenyuan	EGS	10.02
202	107°05'51.1936"	35°51'08.3012"	Zhenyuan	EGS	129.15
203	107°13'27.9903"	35°49'51.8517"	Zhenyuan	EGS	250.80
204	107°24'58.4201"	35°49'09.6613"	Zhenyuan	EGS	237.09
205	107°30'13.8123"	35°48'14.2055"	Xifeng	EGS	161.67
206	107°29'57.7570"	35°48'54.7760"	Xifeng	EGS	10.00
207	107°25'56.7666"	35°48'37.4749"	Zhenyuan	EGS	24.72
208	107°26'20.3700"	35°47'54.0214"	Zhenyuan	EGS	14.14
209	107°54'16.1531"	35°52'43.4425"	Qingcheng	EGS	46.29
210	107°41'15.4928"	35°53'58.9831"	Qingcheng	EGS	215.77
211	107°44'37.1158"	35°53'58.4653"	Qingcheng	EGS	213.20
212	108°05'53.1561"	35°52'10.1386"	Hushui	EGS	194.16
213	108°06'52.5487"	35°52'27.0539"	Hushui	EGS	205.06
214	108°03'41.1757"	35°40'50.6700"	Hushui	EGS	94.87
215	108°14'59.3517"	35°45'08.2628"	Ningxian	EGS	289.71
216	108°06'41.1821"	35°37'45.2400"	Ningxian	EGS	257.26
217	108°03'43.2249"	35°37'09.2833"	Ningxian	EGS	169.43
218	108°08'41.1399"	35°39'11.1178"	Ningxian	EGS	206.15
219	108°07'19.8863"	35°43'03.2576"	Hushui	EGS	28.44
220	108°12'07.8693"	35°45'20.5458"	Ningxian	EGS	190.47
221	108°13'39.6851"	35°45'57.5001"	Ningxian	EGS	103.64
222	108°17'37.2061"	35°46'33.2282"	Ningxian	EGS	17.20
223	108°17'05.0686"	35°47'27.0191"	Ningxian	EGS	35.57

224	108°18'30.7303"	35°46'56.7372"	Ningxian	EGS	23.89
225	108°17'09.2769"	35°45'46.6602"	Ningxian	EGS	269.32
226	107°58'30.9515"	35°30'13.6054"	Ningxian	EGS	210.83
227	107°57'29.4118"	35°30'07.1708"	Ningxian	EGS	143.50
228	107°56'12.3012"	35°32'39.4868"	Ningxian	EGS	261.75
229	107°56'49.6179"	35°33'35.4748"	Ningxian	EGS	93.20
230	107°49'32.8106"	35°05'41.3164"	Changwu	EGS	83.83
231	107°47'29.8138"	35°03'52.1896"	Changwu	EGS	36.06
232	107°45'38.2389"	34°59'59.8381"	Lingtai	EGS	56.57
233	107°48'34.0219"	34°59'40.8755"	Lingtai	EGS	160.41
234	107°52'24.9181"	35°05'43.2563"	Changwu	EGS	58.44
235	107°53'08.6072"	35°05'39.4598"	Changwu	EGS	61.26
236	107°50'38.7090"	35°04'12.1482"	Changwu	EGS	180.60
237	107°52'34.5731"	35°09'52.6084"	Changwu	EGS	41.85
238	106°50'22.3415"	35°39'39.7936"	Zhenyuan	EGS	42.27
239	106°51'48.2496"	35°39'25.7757"	Zhenyuan	EGS	65.35
240	107°10'33.1149"	35°39'07.1215"	Zhenyuan	EGS	18.62
241	107°14'33.1325"	35°36'48.2760"	Zhenyuan	EGS	65.18
242	107°15'11.9881"	35°36'19.5162"	Zhenyuan	EGS	33.86
243	107°07'04.2686"	35°41'25.7302"	Zhenyuan	EGS	22.05
244	107°07'38.2697"	35°40'55.4680"	Zhenyuan	EGS	38.52
245	107°49'18.1607"	35°55'20.9254"	Qingcheng	EGS	15.78
246	107°51'42.4361"	35°55'34.2658"	Qingcheng	EGS	14.14
247	108°05'50.8748"	35°50'09.4004"	Hushui	EGS	12.26
248	108°04'49.1275"	35°49'32.9045"	Hushui	EGS	87.03
249	107°55'38.5838"	35°54'18.4873"	Qingcheng	EGS	17.59
250	107°53'53.5802"	35°55'20.7349"	Qingcheng	EGS	23.34
251	107°54'36.3229"	35°55'55.0648"	Qingcheng	EGS	30.76
252	107°55'08.3160"	35°55'57.2075"	Qingcheng	EGS	12.22
253	108°01'49.9954"	35°58'22.3250"	Hushui	EGS	22.31
254	108°03'36.1000"	35°52'56.8949"	Hushui	EGS	41.23
255	108°02'28.2962"	35°52'33.6370"	Hushui	EGS	41.43
256	107°57'39.4926"	35°46'21.5028"	Hushui	EGS	60.83
257	107°57'51.3511"	35°47'23.5043"	Hushui	EGS	14.14
258	107°58'12.0543"	35°48'03.1044"	Hushui	EGS	61.18
259	107°58'50.1925"	35°48'43.1626"	Hushui	EGS	64.65
260	107°57'43.4769"	35°44'55.7502"	Hushui	EGS	65.64
261	108°27'56.5258"	35°15'13.6252"	Xunyi	EGS	105.07
262	108°26'21.9245"	35°17'41.9963"	Zhengning	EGS	15.05
263	108°27'16.4104"	35°23'37.2273"	Zhengning	EGS	23.59
264	108°23'26.5383"	35°22'00.6616"	Zhengning	EGS	142.39
265	108°22'41.9948"	35°36'33.6933"	Ningxian	EGS	83.71
266	108°20'35.1677"	35°35'53.1140"	Ningxian	EGS	23.25
267	108°18'57.8426"	35°34'55.1740"	Ningxian	EGS	21.91
268	108°22'04.9618"	35°41'15.3475"	Ningxian	EGS	13.87

269	108°20'40.1849"	35°40'44.9480"	Ningxian	EGS	20.03
270	108°17'11.7510"	35°38'07.8353"	Ningxian	EGS	14.14
271	108°12'18.6506"	35°43'03.2091"	Ningxian	EGS	31.27
272	107°57'31.6865"	35°45'42.7613"	Hushui	EGS	56.16
273	108°11'22.2542"	35°41'35.7884"	Ningxian	EGS	78.05
274	109°01'23.0861"	35°03'09.0757"	Yaozhou	NWR	42.48
275	109°02'28.8853"	35°03'12.7881"	Yaozhou	NWR	104.14
276	109°07'13.8721"	35°06'39.9652"	Yintai	NWR	17.20
277	108°48'37.7518"	34°55'00.6056"	Yaozhou	NWR	10.35
278	108°48'29.3007"	34°55'20.8764"	Yaozhou	NWR	12.28
279	108°26'43.7692"	34°49'02.6350"	Chunhua	NWR	123.67
280	108°24'37.9854"	34°51'26.8360"	Chunhua	NWR	106.54
281	108°25'14.3029"	34°52'20.9843"	Chunhua	NWR	49.15
282	108°23'22.6280"	34°55'22.9885"	Chunhua	NWR	188.88
283	108°12'56.8080"	35°12'03.6344"	Xunyi	EGS	116.02
284	108°19'44.5295"	35°16'02.6488"	Xunyi	EGS	18.36
285	108°27'52.8158"	35°15'10.3287"	Xunyi	EGS	90.66
286	108°30'29.0397"	35°16'51.0464"	Xunyi	EGS	65.13
287	108°29'13.2118"	35°18'07.2269"	Zhengning	EGS	64.21
288	108°26'21.3131"	35°17'41.9467"	Zhengning	EGS	15.51
289	107°50'18.4964"	35°00'21.3568"	Changwu	EGS	72.80
290	107°52'55.4720"	34°57'29.6551"	Binxian	NWR	18.40
291	107°53'04.9409"	34°57'59.2419"	Binxian	NWR	20.26
292	107°52'07.0564"	34°53'37.1883"	Binxian	NWR	30.66
293	107°57'00.1510"	34°53'11.4040"	Binxian	NWR	41.62
294	108°00'11.7122"	34°55'44.8886"	Binxian	NWR	16.81
295	108°00'42.7437"	34°56'04.9511"	Binxian	NWR	41.01
296	108°03'48.2741"	35°01'27.8538"	Binxian	NWR	8.46
297	108°07'36.3984"	34°59'13.4029"	Binxian	NWR	174.37
298	108°05'34.7652"	34°55'48.3385"	Binxian	NWR	26.95
299	108°06'03.8002"	34°55'53.1087"	Binxian	NWR	17.63
300	108°05'09.3497"	34°55'31.6087"	Binxian	NWR	51.80
301	108°10'23.8779"	34°51'14.9524"	Yongshou	NWR	31.42
302	108°14'27.4330"	34°42'11.7263"	Qianxian	NWR	144.67
303	108°10'42.1145"	34°49'56.8060"	Yongshou	NWR	93.84
304	107°55'51.2119"	34°41'36.2470"	Linyou	NWR	28.78
305	107°56'15.9504"	34°41'08.9322"	Linyou	NWR	29.46
306	107°57'01.0059"	34°40'37.2187"	Linyou	NWR	12.51
307	107°57'34.8292"	34°39'55.3914"	Linyou	NWR	51.06
308	107°59'15.7568"	34°39'41.5947"	Linyou	NWR	27.89
309	108°00'10.7040"	34°39'22.8756"	Linyou	NWR	61.36
310	107°58'10.2709"	34°39'02.4728"	Linyou	NWR	76.49
311	108°04'36.0880"	34°39'13.7460"	Qianxian	NWR	40.89
312	110°12'17.1180"	35°23'42.9334"	Hancheng	NWR	57.92
313	110°14'41.9255"	35°22'51.1317"	Hancheng	NWR	60.99

314	110°15'12.6836"	35°22'47.2024"	Hancheng	NWR	31.18
315	110°15'42.4209"	35°22'11.8325"	Hancheng	NWR	102.46
316	109°34'21.1121"	35°17'24.9540"	Baishui	NWR	130.21
317	109°29'31.6004"	35°19'32.2684"	Baishui	NWR	125.36
318	109°10'09.5325"	35°10'34.2733"	Yijun	NSX	16.52
319	109°10'17.6478"	35°08'44.5818"	Yijun	NSX	95.00
320	109°10'42.6327"	35°08'48.2200"	Yijun	NSX	82.69
321	109°09'33.7343"	35°26'57.7792"	Yijun	NSX	34.87
322	109°21'58.8709"	35°23'35.3548"	Yijun	NSX	55.90
323	109°21'24.1801"	35°23'47.6356"	Yijun	NSX	62.90
324	109°21'09.4927"	35°23'39.2423"	Yijun	NSX	40.33
325	109°19'43.9149"	35°24'03.9043"	Yijun	NSX	48.03
326	109°17'15.6638"	35°24'13.6908"	Yijun	NSX	36.97
327	109°18'09.7407"	35°24'45.9800"	Yijun	NSX	34.29
328	109°18'31.4245"	35°25'02.9230"	Yijun	NSX	34.67
329	109°19'42.2462"	35°25'44.8358"	Yijun	NSX	60.71
330	109°20'24.6293"	35°25'37.1199"	Yijun	NSX	145.60
331	109°19'38.9805"	35°26'45.5657"	Yijun	NSX	108.79
332	109°22'35.1183"	35°27'09.3206"	Yijun	NSX	36.33
333	109°23'17.6554"	35°27'33.2688"	Yijun	NSX	63.43
334	109°25'27.6286"	35°25'22.9935"	Yijun	NSX	127.13
335	109°17'02.4620"	35°28'22.2475"	Yijun	NSX	56.79
336	109°19'03.8772"	35°30'24.6755"	Yijun	NSX	65.33
337	109°15'07.2854"	35°28'56.2567"	Yijun	NSX	99.50
338	109°13'02.3899"	35°28'26.9140"	Yijun	NSX	18.03
339	109°12'11.4789"	35°27'33.2540"	Yijun	NSX	18.72
340	109°13'03.2406"	35°27'33.5316"	Yijun	NSX	25.04
341	109°12'41.2276"	35°27'23.1747"	Yijun	NSX	67.09
342	109°12'47.6164"	35°27'25.6838"	Yijun	NSX	29.92
343	109°24'18.3719"	35°32'27.7987"	Huangling	NSX	152.57
344	109°21'13.7310"	35°32'49.8369"	Huangling	NSX	29.47
345	109°20'04.3380"	35°32'47.4002"	Huangling	NSX	136.61
346	109°15'56.1431"	35°32'28.4911"	Huangling	NSX	37.76
347	109°14'46.1512"	35°32'17.3510"	Huangling	NSX	53.47
348	109°13'42.8619"	35°32'23.4317"	Huangling	NSX	25.51
349	109°12'50.1540"	35°32'22.6728"	Yijun	NSX	97.34
350	109°12'00.1842"	35°32'24.6223"	Yijun	NSX	92.02
351	109°12'54.4322"	35°30'51.7280"	Yijun	NSX	117.35
352	109°13'47.1570"	35°36'44.0558"	Huangling	NSX	56.55
353	109°07'50.2208"	35°38'43.2520"	Huangling	NSX	7.94
354	109°05'59.1971"	35°41'38.9329"	Huangling	NSX	32.42
355	109°07'31.9635"	35°41'15.9421"	Huangling	NSX	6.19
356	109°05'04.8850"	35°44'26.7851"	Huangling	NSX	21.46
357	109°11'49.1275"	35°44'26.6044"	Huangling	NSX	36.77
358	109°13'39.4508"	35°41'17.8206"	Huangling	NSX	31.63

359	109°16'44.2042"	35°39'03.2187"	Huangling	NSX	54.09
360	109°18'43.8237"	35°38'28.4948"	Huangling	NSX	31.62
361	109°19'04.2777"	35°37'45.5313"	Huangling	NSX	9.82
362	109°16'47.3468"	35°38'24.9545"	Huangling	NSX	54.88
363	109°15'46.5658"	35°43'12.4474"	Huangling	NSX	156.41
364	109°16'12.6630"	35°43'09.5297"	Huangling	NSX	50.52
365	109°14'51.1002"	35°45'15.3918"	Fuxian	NSX	80.80
366	109°16'12.3867"	35°45'18.8637"	Fuxian	NSX	52.15
367	109°18'38.7359"	35°46'36.3294"	Luochuan	NSX	9.76
368	109°18'33.0887"	35°46'59.1441"	Fuxian	NSX	6.89
369	109°17'21.0432"	35°47'29.2623"	Fuxian	NSX	11.41
370	109°18'11.8929"	35°51'37.8394"	Fuxian	NSX	55.28
371	109°17'51.4376"	36°01'59.5043"	Fuxian	NSX	71.10
372	109°11'22.5570"	35°53'33.0616"	Fuxian	NSX	4.81
373	109°07'51.2125"	35°58'11.2825"	Fuxian	NSX	8.49
374	109°10'14.2930"	36°02'02.0379"	Fuxian	NSX	36.68
375	109°17'23.9530"	36°04'42.5469"	Fuxian	NSX	21.91
376	109°17'37.0957"	36°04'46.4564"	Fuxian	NSX	4.08
377	109°30'47.6250"	36°00'41.0005"	Fuxian	NSX	124.06
378	109°31'39.7033"	35°52'43.3695"	Luochuan	NSX	4.80
379	109°23'36.3324"	35°42'57.7005"	Luochuan	NSX	40.40
380	109°22'20.0829"	35°41'57.2676"	Luochuan	NSX	22.02
381	109°22'38.5506"	35°42'07.5167"	Luochuan	NSX	36.83
382	109°24'27.8161"	35°44'58.3185"	Luochuan	NSX	44.02
383	109°24'11.9941"	35°47'48.0647"	Luochuan	NSX	47.25
384	109°21'52.6676"	35°48'13.6237"	Luochuan	NSX	94.70
385	109°21'46.7959"	35°48'12.7824"	Luochuan	NSX	9.99
386	109°22'11.2560"	35°48'06.1203"	Luochuan	NSX	8.13
387	109°26'15.9508"	35°48'00.9168"	Luochuan	NSX	2.80
388	109°34'55.2840"	35°50'03.1249"	Luochuan	NSX	222.89
389	109°33'23.8991"	35°51'12.3694"	Luochuan	NSX	70.40
390	109°37'17.2916"	35°49'53.4866"	Luochuan	NSX	31.83
391	109°40'21.6954"	35°48'25.9470"	Huanglong	NSX	120.67
392	109°40'35.0543"	35°48'32.9249"	Huanglong	NSX	11.95
393	109°40'54.7620"	35°50'02.7027"	Huanglong	NSX	21.66
394	109°41'20.9819"	35°50'56.7120"	Huanglong	NSX	35.07
395	109°43'38.7242"	35°46'31.0382"	Huanglong	NSX	10.77
396	109°43'49.4768"	35°46'38.7900"	Huanglong	NSX	22.08
397	109°42'59.8883"	35°44'11.8831"	Huanglong	NSX	119.12
398	109°43'55.0775"	35°43'17.1252"	Huanglong	NSX	38.43
399	109°43'30.5832"	35°43'42.5058"	Huanglong	NSX	25.76
400	109°38'05.2484"	35°40'59.3079"	Luochuan	NSX	114.86
401	109°42'05.6105"	35°43'52.5905"	Luochuan	NSX	229.55
402	109°40'45.7644"	35°44'38.5047"	Luochuan	NSX	14.63
403	109°40'15.5030"	35°44'35.8657"	Luochuan	NSX	41.06

404	109°39'05.5681"	35°44'38.8751"	Luochuan	NSX	160.41
405	109°38'04.5776"	35°44'13.4007"	Luochuan	NSX	17.73
406	109°36'57.2439"	35°43'20.2408"	Luochuan	NSX	189.05
407	109°35'00.6477"	35°41'24.8109"	Luochuan	NSX	160.40
408	109°28'38.3624"	35°34'11.2951"	Luochuan	NSX	103.81
409	109°29'11.1860"	35°34'29.0162"	Luochuan	NSX	23.57
410	109°26'55.5602"	35°33'59.2467"	Luochuan	NSX	91.08
411	109°34'08.8202"	35°42'24.6318"	Luochuan	NSX	85.40
412	109°31'45.0971"	35°42'05.6517"	Luochuan	NSX	23.88
413	109°23'17.0266"	35°35'59.4004"	Luochuan	NSX	26.84
414	109°44'17.1856"	35°42'07.7825"	Huanglong	NSX	7.07
415	109°43'56.5930"	35°41'41.7018"	Huanglong	NSX	58.51
416	109°42'08.5796"	35°40'48.0970"	Huanglong	NSX	44.69
417	109°41'07.6532"	35°34'59.7057"	Huanglong	NSX	263.62
418	109°44'04.5611"	35°34'12.5657"	Huanglong	NSX	68.67
419	109°41'25.6021"	35°38'27.8259"	Huanglong	NSX	20.01
420	109°39'12.4087"	35°36'31.2720"	Luochuan	NSX	227.20
421	109°37'21.2683"	35°35'27.7174"	Luochuan	NSX	196.00
422	109°30'10.7663"	35°33'06.0445"	Luochuan	NSX	19.12
423	109°28'08.4425"	35°31'41.0522"	Luochuan	NSX	42.78
424	109°28'23.8441"	35°31'39.7523"	Luochuan	NSX	31.71
425	109°27'42.3452"	35°31'23.0625"	Luochuan	NSX	138.42
426	109°28'51.8252"	35°31'07.9956"	Luochuan	NSX	74.25
427	109°32'16.2550"	35°31'00.1185"	Luochuan	NSX	138.96
428	109°34'33.0291"	35°32'30.5664"	Luochuan	NSX	68.22
429	109°41'48.9726"	35°31'15.8258"	Huanglong	NSX	57.67
430	109°41'24.6758"	35°32'15.8368"	Luochuan	NSX	200.90
431	109°43'35.3314"	35°33'12.9390"	Huanglong	NSX	65.97
432	109°38'58.7699"	35°29'21.2243"	Luochuan	NSX	9.25
433	109°37'08.7503"	35°28'29.2921"	Luochuan	NSX	10.06
434	109°36'42.8961"	35°28'07.3588"	Luochuan	NSX	157.74
435	109°35'53.9727"	35°27'33.0782"	Luochuan	NSX	11.59
436	109°30'22.8506"	35°26'47.5510"	Luochuan	NSX	287.79
437	109°43'39.3104"	35°29'24.7179"	Huanglong	NSX	94.82
438	109°44'26.6505"	35°29'17.1519"	Huanglong	NSX	49.48
439	109°40'09.3370"	35°26'08.6236"	Luochuan	NSX	175.16
440	109°35'30.5316"	35°25'46.5056"	Baishui	NWR	102.63
441	109°31'39.5245"	35°23'23.4001"	Baishui	NWR	59.04
442	109°33'11.6694"	35°18'17.6000"	Baishui	NWR	135.61
443	109°11'54.1503"	35°10'27.5849"	Yijun	NSX	66.04
444	109°11'16.9027"	35°10'48.4461"	Yijun	NSX	118.14
445	109°11'29.2795"	35°10'44.3236"	Yijun	NSX	165.68
446	109°44'05.0849"	35°23'56.8928"	Baishui	NWR	104.59
447	109°47'01.4765"	35°17'44.7222"	Chengcheng	NWR	193.70
448	109°46'47.6816"	35°16'45.3078"	Chengcheng	NWR	120.59

449	109°47'19.7464"	35°12'31.4912"	Chengcheng	NWR	41.96
450	109°49'22.2590"	35°12'09.9205"	Chengcheng	NWR	105.58
451	109°49'16.8548"	35°11'59.2138"	Chengcheng	NWR	61.91
452	110°13'43.5741"	35°23'16.4789"	Hancheng	NWR	15.78
453	109°09'47.4754"	35°08'22.9933"	Yijun	NSX	7.61
454	109°09'52.2660"	35°09'52.3418"	Yijun	NSX	5.99
455	109°14'44.9767"	35°43'02.0350"	Huangling	NSX	7.06