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Table1 Temporal characteristics of ET_0 and meteorological factors in Yanhe River Basin.

Time	Mean						M-K statistics					
	$T/^\circ\text{C}$	$RH/\%$	$U_2/(\text{m s}^{-1})$	$R_s/(\text{MJ mm}^{-2} \text{ day}^{-1})$	P/mm	$ET_0/(\text{mm})$	T	RH	U_2	R_s	P	ET_0
Jan.	-6.07	53.85	1.03	304.92	3.00	23.37	1.68	0.72	0.93	0.51	0.63	0.49
Feb.	-2.05	52.44	1.13	336.89	5.65	33.90	2.73	1.1	-0.09	0.61	2.14	1.7
Mar.	4.33	50.53	1.32	478.71	14.28	66.43	3.12	-2.31	-0.19	2.42	-2.33	3.36
Apr.	11.76	46.48	1.48	580.06	24.05	104.39	2.24	-0.47	-3.03	1.44	1.07	0.49
May.	17.20	50.93	1.40	664.94	43.40	133.22	0.75	-0.37	-2.07	1	0.54	0.28
Jun.	21.29	57.66	1.26	655.36	60.54	139.72	1.68	-1.17	-0.93	0.93	-1.1	1
					115.2							
Jul.	22.99	69.01	1.11	631.68	4	134.55	2.63	-1.24	0.72	0.72	0.3	1.63
					107.1							
Aug.	21.24	74.17	1.03	573.99	9	114.22	1.7	-2.21	1.12	-0.42	-1	0.7
Sep.	16.04	74.92	0.98	453.95	71.85	78.29	2.82	-0.21	1.84	-1.86	0.98	-0.49
Oct.	9.63	70.20	1.02	384.49	34.76	53.65	1.61	1.26	0.05	-1.05	0.72	-0.21
Nov.	2.22	62.64	1.07	304.19	12.64	32.13	1.98	-0.19	-0.23	-0.02	-0.3	0.68
Dec.	-4.23	57.03	1.04	276.63	2.60	22.07	0.89	-0.68	1.35	0.63	0.56	0.96
					495.1							
Year	9.59	60.05	1.16	5645.81	9	935.92	3.8	-1.12	-0.7	0.56	0.42	1.65

Table 2 Temporal characteristics of sensitivity coefficient of ET_0 to meteorological factors.

Time	Mean				M-K statistics			
	S_T	S_{RH}	S_{U2}	S_{Rs}	S_T	S_{RH}	S_{U2}	S_{Rs}
Jan.	-0.12	-0.51	0.32	0.09	1.33	-2.31	1.35	-0.56
Feb.	-0.05	-0.43	0.25	0.27	2.10	-1.77	0.56	-0.58
Mar.	0.04	-0.36	0.20	0.40	-0.33	1.82	2.82	-2.21
Apr.	0.09	-0.28	0.20	0.48	0.19	0.89	0.16	1.12
May.	0.12	-0.25	0.16	0.56	-0.19	1.07	0.30	0.09
Jun.	0.14	-0.24	0.13	0.63	-0.89	1.24	0.93	-0.07
Jul.	0.19	-0.28	0.09	0.70	-1.98	-0.02	1.70	-1.07
Aug.	0.22	-0.33	0.07	0.70	-2.54	-1.37	2.63	-2.83
Sep.	0.20	-0.44	0.09	0.61	-1.33	-2.77	1.37	-2.38
Oct.	0.13	-0.54	0.16	0.43	0.61	-1.82	-0.42	-0.37
Nov.	0.02	-0.62	0.29	0.16	1.00	-0.91	1.12	-1.19
Dec.	-0.07	-0.61	0.37	-0.01	2.84	-0.93	1.40	-1.21
Year	0.08	-0.41	0.19	0.42	0.82	-1.51	2.80	-1.82

Table3 MK statistics of Sensitivity coefficient of ET_0 to meteorological factors of Yanhe River Basin.

Station	Mean				M-K statistics			
	S_T	S_{RH}	S_{U2}	S_{Rs}	S_T	S_{RH}	S_{U2}	S_{Rs}
Jingbian	0.03	-0.46	0.26	0.34	1.12	3.05	2.89	-0.40
Wuqi	0.07	-0.36	0.17	0.43	0.56	2.07	-0.07	1.54
Zichang	0.07	-0.43	0.21	0.40	0.51	-3.57	1.42	-1.30
zhidan	0.08	-0.34	0.16	0.45	2.77	-1.21	2.10	-0.77
Ansai	0.08	-0.45	0.20	0.41	1.26	-0.16	1.07	0.72
Yan'an	0.08	-0.44	0.21	0.41	-1.56	0.05	1.33	-1.30
Ganquan	0.09	-0.46	0.17	0.45	2.68	3.38	0.54	1.72
Yanchuan	0.08	-0.28	0.17	0.44	0.61	-2.68	4.24	-3.36
g	0.10	-0.39	0.18	0.45	-1.72	-2.96	3.36	-3.22
Yichuan	0.09	-0.45	0.20	0.42	-1.56	-2.49	3.61	-3.84

Table 4 Temporal characteristic of contribution rate of meteorological factors to ET_0 in Yanhe River Basin.

Time	$R_T/\%$	$C_T/\%$	$R_{RH}/\%$	$C_{RH}/\%$	$R_{U2}/\%$	$C_{U2}/\%$	$R_{RS}/\%$	$C_{RS}/\%$
Jan.	-16.15	1.95	3.10	-1.59	2.34	0.76	0.53	0.05
Feb.	-123.61	6.68	8.25	-3.57	0.71	0.18	1.79	0.49
Mar.	63.48	2.86	-23.68	8.61	-4.53	-0.92	11.87	4.79
Apr.	12.65	1.15	-4.60	1.26	-23.55	-4.70	5.30	2.54
May.	2.77	0.33	-3.47	0.88	-22.31	-3.66	4.09	2.31
Jun.	4.57	0.64	-6.65	1.58	-11.78	-1.57	2.65	1.68
Jul.	6.11	1.16	-5.64	1.59	3.95	0.34	2.25	1.58
Aug.	4.48	0.96	-6.40	2.09	6.20	0.43	-2.29	-1.60
Sep.	9.70	1.95	-0.57	0.25	8.53	0.73	-9.20	-5.58
Oct.	11.47	1.44	4.18	-2.25	-5.09	-0.81	-6.80	-2.89
Nov.	66.20	1.26	-0.04	0.03	-4.10	-1.17	-2.04	-0.33
Dec.	-21.83	1.46	-4.92	3.01	10.80	3.96	2.62	-0.04
Year	14.35	1.09	2.09	-0.85	-3.24	-0.63	1.32	0.55

Table 5 Contribution rate of meteorological factors to ET_0 of stations in Yanhe River Basin.

Station	$R_T/\%$	$C_T/\%$	$R_{RH}/\%$	$C_{RH}/\%$	$R_{U2}/\%$	$C_{U2}/\%$	$R_{RS}/\%$	$C_{RS}/\%$
Jingbian	27.75	2.02	-9.00	3.91	-31.68	-6.76	2.79	1.12
Wuqi	12.34	0.94	-3.92	1.35	-17.78	-2.82	8.81	3.95
Zichang	16.19	1.25	0.74	-0.34	10.52	2.10	-0.21	-0.08
zhidan	19.71	1.86	-4.56	2.10	-8.13	-1.40	4.27	1.90
Ansai	11.10	0.89	-1.46	0.40	-18.65	-3.13	2.23	0.98
Yan'an	12.91	1.25	-7.57	2.93	0.16	0.03	4.43	1.98
Ganquan	18.00	0.54	-2.99	1.37	-35.71	-9.16	-2.18	-0.74
Yanchua								
n	8.27	0.54	-0.51	0.18	40.06	6.90	-1.17	-0.50
Yanchan								
g	4.70	0.39	0.74	-0.24	34.65	6.51	-3.42	-1.48
Yichuan	15.34	1.33	-4.67	2.12	8.13	1.64	-2.58	-1.09