

Supplementary table 2. Eastward precipitation increase: Lower-basin maxima (Lijin 136.65 mm) exceed western headwaters (Tangnaihai 103.83 mm) by 31.6%.

Hydrological Station	Precipitation (mm)																						For Forecast	
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		2022
Tangnaihai	70.1	66.3	67.35	78.55	77.925	83.55	76.1	91.225	78.8	81.775	72.55	82.325	90.325	69.225	85.2	71.225	66.2	86.7	103.825	94.525	80.8	89.4	49.8	68.4
Lanzhou	57.825	60.7	48.55	69.3	56.9	56.275	51.7	65.675	56.35	49.35	52.275	63.45	70.225	58.875	62.5	50.85	54.125	60.3	80.375	69.075	68.825	43.2	103.0	76.4
Toudaoguai	57.35	61.925	73.425	87.35	83.275	53.8	60.325	65.7	91.675	60.65	71.575	51.975	107.475	104.5	75.15	68.15	94.625	69.5	75.875	80.15	102.975	70.5	74.767	83.6
Longmen	144.8	72.8	82.45	146.575	113.45	136.95	98.4	115.45	100.425	90.475	129.25	116.2	81.975	81.175	104.175	75.3	117.675	97.575	94.025	108.8	110.325	129.4	109.4	88.8
Tongguan	106.425	75.3	77.475	139.925	91.05	108.35	85	115.85	91.75	84.975	115.85	126.1	79.25	83.05	106.275	68.85	87.425	95.3	90.9	109.425	102.7	144.975	105.9	116.1
Huayuankou	144.225	74.35	74.95	148.65	124.8	138.7	99.15	110.95	102.225	97.15	122.525	99.4	90.45	89.975	92.225	90.1	116.575	96.275	104.575	104.625	111.925	254.92	88.95	146.4
Gaocun	134.325	85.4	66.625	157.475	139.1	139	105.725	124.9	115.725	109.825	132.45	108.225	99.925	90.1	96.6	101.75	125.775	102.1	123.0	113.425	115.925	153.95	102.75	112.25
Aishan	127.175	101.525	58.3	149.3	154.95	144.175	105.475	134.4	125.85	114.95	145.375	124.775	113.8	121.225	100.35	108.85	143.65	112.2	143.575	121.05	128.85	197.867	140.45	122.475
Lijin	84.475	117.1	60.225	125	136.65	122.475	87.15	124.425	120.85	111.65	118.425	123.875	124.25	106.15	97.025	83.475	124.45	109.4	124.65	100.3	128.275	144.95	128.15	76.4

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The bolded numbers in the table represent the maximum values over the years, while the underlined data represents the minimum values over the years.