

Appendix

Partly raw data of constructed indicators.

	GDP per capita (yuan)	Per capita fiscal expenditure (yuan)	Per capita disposable income (Yuan)	Proportion of government expenditure on medical and health care (%)	Population density (people/km ²)	Proportion of permanent urban population aged 65 and above and below in total permanent urban population (%)	Number of beds in hospitals and health centers per 1,000 people (units)	Annual precipitation (mm)	Average annual temperature (°C)	Annual surface runoff (billion cubic meters)	Crop sown area (thousand hectares)	Green area coverage (%)	Water conservancy project quality evaluation grade (Grade)	Year-end storage capacity of large and medium-sized urban reservoirs (100 million cubic meters)	Density of drainage network in built-up area (km/square kilometers)	Per capita road area (square meters)	Number of national comprehensive disaster reduction demonstration communities (units)	Number of national comprehensive disaster reduction personnel per 10,000 population (units)	Total number of statutory active public information published online by the Water Resources Bureau (pieces)
Harbin	2022 58436	11341.13	43981	10.56%	184.7	25.10839	9.103115	552.6	5.2	98.97	1492.9	33.1	B	129.66	7.24696	16.7	0	18.74796	87
	2021 56580	10518.45	42745	10.10%	177.7	25.10839	9.33	582.9	4.8	116.1	1484.7	33.1	B	129.66	8.047687	12.5	4	19.76823	65
	2020 54058	12253.03	39791	8.11%	186	25.1	19.7	790.5	5.4	218.2	1471.2	34.2	B	153.87	7.794926	10.3	3	19.38062	315
	2022 74399	10773.6	43240	10.07%	14095.31	26.29169	7.414676	774.2	3.3	54.63	1650.2	38.44	B	78.97	11.46	16.53	0	31.23381	421
Changchun	2021 78258	11347.89	43281	10.08%	13890.77	26.29169	6.712739	684.7	5.8	31.7	1641.1	40.22	B	78.97	10.43	15.99	7	31.23381	295
	2020 77634	11608.7	40001	8.37%	14065.56	15.09	7.60492	668.3	6.5	31.51	1633.2	36.03	D	9.501	10.09	16.08	12	30.58434	381
Dandong	2021 39401	8659.5692	34804	7.63%	150	0.3985143B.1316001	1023.7	10.2	124.53	209.85	40	A	4.93	0.035775	5.124261151	0	12.78882894	23	
	2020 35617	10633.728	32346	7.84%	151	0.3961887B.0147933	1311.4	10.1	109.39	209.746	40	B	4.51	0.0334859	3.888193416	0	47.93054482	0	
Dandong	2021 39401	8659.5692	34804	7.63%	150	0.3985143B.1316001	1023.7	10.2	124.53	209.85	40	A	4.93	0.035775	5.124261151	0	12.78882894	23	
	2020 35617	10633.728	32346	7.84%	151	0.3961887B.0147933	1311.4	10.1	109.39	209.746	40	B	4.51	0.0334859	3.888193416	0	47.93054482	0	
Beijing	2022 190313	34194.70769	77415	10.39%	1331	27.2	5.78	585.4	13.4	7.4	147	49.8	A	38.06	17.633904	4.986495	20	56.855743	4390
	2021 187526	32921.1368	75002	8.78%	1334	25.14	5.59	698.4	13.6	31.6	122	49.3	A	43.1	18.278479	4.9077036	20	53.550672	5198
	2020 164156	32522.5217	69434	8.51%	1334	25.2	5.81	527.1	13.8	8.3	102	49	A	31.4	17.164738	4.8670626	30	51.037917	5084
	2022 119200	20000	48976	6.47%	1143	31.13	4.55	589.9	13.4	11.02	44350	38.4	A	6.81	18.56	16.11	15	26.66907	1690
Tianjin	2021 113732	22800	47449	8.53%	1151	28.22	4.51	979.6	13.4	30.5	43700	38.3	A	9.03	18.54	15.44	15	26.66907	1012
	2020 101068	22700	43854	5.57%	1163	28.8	4.44	600.2	13.6	8.6	41920	37.6	A	9.12	19.09	14.91	22	26.625811	1515
Jinan	2022 128287	13017.65643	59459	11.00%	800	16.75	8.111464	906.8	15.5	23.24	623.327	41.9	A	3.74	11.78019	21.4	2	27.39177	722
	2021 128287	13846.4013	57449	8.64%	797	16.75	7.801116	1043.4	15.6	26.17	614.8	41.7	A	1.35	10.581	20.8	2	27.39177	722
Yantai	2020 110199	14005.04216	53328.6	7.66%	788	16.75	7.4796792	718.3	14.5	13.09	614.3	40.69	A	1.46	10.462189	20.66	4	28.950216	36
	2022 134581	13082.49253	45143	10.34%	507	19.25	6.2613512	955.5	13.6	63.86	441.024	44.2	A	6.37	9.97	29.6	2	26.706503	596
	2020 119200	20000	48976	6.47%	1143	31.13	4.55	589.9	13.4	11.02	44350	38.4	A	4.82	7.79	29.4	2	15.323944	926
	2022 110225	11900.6011	39306	8.62%	512.36454	19.25	6.0838718	760.4	13.2	13.87	291.353	39.71	A	2.61	9.06	26.21	3	14.71831	1011
Xuzhou	2022 93731	11441.09331	42610	8.58%	767	25.23	6.9308643	801.3	16.4	22.6	1189.87	44.6	A	1.31	12.3	22.5	6	6.6689427	1849
	2021 88419	11124.72947	40842	9.11%	767	25.23	6.785346	1204.8	16.2	52.58	1181.95	43.3	A	1.31	12.9	22.7	6	7.0407489	2681
Zhengzhou	2020 101699	12750.39246	39511	7.23%	2378	25.23	6.5909461	1067.7	16	37.43	1180.37	43.1	A	1.31	6.7	23.4	7	8.027533	2266
	2021 94911	13639.46117	24783	7.31%	9417	28.1	8.311252	676.7	16.5	5.27	386.62	41.5	B	0.54	8.06	10.3	2	22.345483	1453
Kaifeng	2022 56075	9731.556903	15370	12.15%	5351	37	7.2904051	458.3	15.9	5.03	873.06	46.3	B	0.28	8.61	22.3	2	20.08216	1015
	2021 53173	8984.728033	24573	11.83%	5351	37.6	6.9268619	1224.1	16.6	14.96	869.77	42.6	B	0.57	8.33	22.05	2	14.078675	44
Bengbu	2022 60739	3444.333636	33733	19.25%	2709	24.79	3.4983379	834.4	16.7	8.4	518.303	44.42	A	0.19	9.0323	29.32	2	13.748485	86
	2021 60117	3288.08	31972.4	10.35%	2433	24.79	6.703024	948.9	16.7	14.47	634.248	43.6	A	0.14	10.430435	10.134402	2	12.242424	351
Shanghai	2020 63209	3259.399	39116	10.81%	2399	24.79	6.5471211	1101.3	16.3	14.66	636.086	42.6	A	0.12	10.273128	9.8373354	2	12.966667	365
	2022 179907	37952.162	84834	13.93%	3905	23.721494	17.36	1044.1	14.8	27.55	271.8	38.1	A	4.66262	17.95	5	25.36169141	815	
Nanjing	2021 173600	33872.479	72232	7.50%	3926	23.721494	6.1	1388.2	18.1	45.59	266.8	37.73	A	4.66262	19.08	4.81	25.44.553895	634	
	2020 156800	32560.04	78027	6.80%	3830	22.775194	5.8	1660.8	17.8	49.88	257.8	37.32	A	4.66262	13.92	4.76	34.44.264469	835	
Hefei	2022 178781	19336	76643	9.34%	1349	26.447368	7.45	819.8	17.6	18.6	262.27	44.96	A	17.63	12.3	26.4	7.34.549356	932	
	2021 173824	19396	73593	8.27%	1639	26.447368	7.013	1267.1	17.6	28.31	226.02	44.96	A	21.34	12.51	25.78	7.30.793991	1075	
	2020 159322	18866	67553	6.89%	1614	26.447368	6.753	1294.4	17.1	23.77	251.48	44.69	A	13.59	12.51	25	12.28.218884	936	
	2022 125798	14326.13	48820	8.26%	5081	29.08	6.41848668	805.8	16.9	23.65	702.008	45.96	A	43.59	16.61	14.91	6.8.054429	795	
Taizhou	2021 211877	15547	6011	10.19%	1670	28.488946	5.04	1456.41	16.8	28.55	70.51	203.53	44.01	A	4.37	12.12	15.46	5.7.622926	1060
	2020 77920	11087.79	50643	9.68%	1584	28.488946	4.77	1243	19.14	28.55	59.45	200.34	43.89	A	4.37	10.36	24.50	3.8.9668175	185
Wenzhou	2022 83107	11754.685	73326	11.97%	2682	38.8488623	4.8388263	1431.2	18.9	24.31	339.548	45.84	A	0.63	13.87	25.91	2.12.44575	1329	
	2021 774647	11060.81	69678	10.58%	2556	39.328364	6.6834629	2021.6	19.3	177.21	37.65	A	1.3	14.28	25.45	2.4.928761	914		
Hangzhou	2022 102964	13327.02	44588	9.18%	1794	26.396011	6.37	1888.5	17.2	60.13	225.889	41.01	A	1.28	14.08	24.41	4.5.4863014	1024	
	2020 152588	20540.482	70281	10.36%	4392	42.2	6.550501	1501.9	18.4	126.27	247.92	40.96	A	136.06	13.92	13.81	8.29.490393	3131	
Changsha	2022 150998	20829.974	67709	7.17%	4371	41.1	6.43870866	1952.1	18.8	189.11	246.26	39.74	A	145.06	13.53	12.55	8.29.490393	2419	
	2020 137474	19991.977	61879	7.20%	3789	41.6	6.4649394	1664.2	18.3	216.69	282.21	43.36	A	144.2	13.54	12.42	8.28.869674	2705	
Taizhou	2022 93672	12527.853	58040	10.19%	1670	28.488946	4.73	2166.11	18.6	48.874	140.47	47.21	A	8.16	12.49	24.67	5.7.622926	1060	
	2021 77220	12534.604	55499	9.65%	1613	28.488946	4.73	1243	19.14	28.55	59.45	200.34	43.89	A	4.37	10.36	24.50	3.8.9668175	185
Wuhan	2022 137772	16211.078	58449	9.11%	7442	28.666654	6.2020526	1176.8	18.0	28.65	422.34	43.09	A	3.17	14.72	13.23	4.29.76480		