

# Supplementary Material

Tables and captions:

**Table S1.** Population change in six provinces in arid and semi-arid China.

Province	Years	Urban ( $\times 10^4$ )	Rural ( $\times 10^4$ )	Total ( $\times 10^4$ )
Gansu	1982	300.19	1656.74	1956.92
	1990	493.06	1744.05	2237.11
	2000	603.23	1909.20	2512.43
	2010	923.66	1633.87	2557.53
	2015	1123	1477	2600
Qinghai	1982	79.79	309.78	389.57
	1990	121.88	323.81	445.69
	2000	180.09	338.06	518.16
	2010	251.63	311.05	562.67
	2015	296	292	588
Inner Mongolia	1982	556.13	1371.29	1927.43
	1990	779.69	1365.96	2145.65
	2000	1013.88	1361.66	2375.54
	2010	1372.02	1098.61	2470.63
	2015	1514	997	2511
Xinjiang	1982	371.48	936.67	1308.15
	1990	508.30	1007.39	1515.69
	2000	623.10	1223.16	1846.26
	2010	901.53	1279.80	2181.33
	2015	1115	1245	2360
Shaanxi	1982	549.05	2341.39	2890.44
	1990	706.77	2581.47	3288.24
	2000	1162.88	2441.89	3604.77
	2010	1705.86	2026.88	3732.74
	2015	2045	1748	3793
Ningxia	1982	87.59	301.96	389.56
	1990	119.75	345.79	465.54
	2000	180.39	368.25	548.64
	2010	301.83	328.30	630.14
	2015	369	299	668