

Table S1 Details of landscape attributes of green space of the cities in YRDUA

| Province* | City | CA (km ²) | PLAND (%) | PD (item/km ²) | LPI - | ED (km/km ²) | LSI - | IJI - | COHESION - | DIVISION - |
|-----------|-----------|--------------------------|--------------|-------------------------------|----------|-----------------------------|----------|----------|---------------|---------------|
| Anhui | | 231285.1838 | 22.2408 | 0.6613 | 16.2745 | 11.4508 | 63.0966 | 30.6070 | 93.7112 | 0.9118 |
| | Anqing | 534484.2600 | 39.6244 | 1.1480 | 29.5270 | 24.3335 | 113.6553 | 12.3313 | 99.9384 | 0.9105 |
| | Benghu | 1095.7500 | 0.1836 | 0.1290 | 0.0423 | 0.6136 | 27.8235 | 64.7090 | 93.3027 | 1.0000 |
| | Bozhou | 86.4900 | 0.0101 | 0.0277 | 0.0004 | 0.0779 | 17.8710 | 59.8041 | 60.3761 | 1.0000 |
| | Chizhou | 557168.5800 | 66.3538 | 1.0220 | 57.9136 | 22.2124 | 64.1857 | 15.7402 | 99.9518 | 0.6644 |
| | Chuzhou | 102137.0400 | 7.5566 | 0.9068 | 0.5386 | 12.6876 | 134.3355 | 15.2611 | 98.7893 | 0.9999 |
| | Fuyang | 66.5100 | 0.0066 | 0.0231 | 0.0006 | 0.0513 | 16.0182 | 73.3025 | 57.0946 | 1.0000 |
| | Hefei | 56130.2100 | 4.8919 | 0.4506 | 0.6841 | 5.8793 | 72.6943 | 15.2311 | 98.9257 | 0.9999 |
| | Huaibei | 3662.6400 | 1.3332 | 0.2031 | 0.4516 | 2.4842 | 29.3441 | 38.5872 | 98.2588 | 1.0000 |
| | Huainan | 2498.4900 | 0.4517 | 0.0899 | 0.2177 | 0.9249 | 25.6647 | 43.2810 | 98.1405 | 1.0000 |
| | Huangshan | 852719.5800 | 88.1531 | 0.5267 | 75.7457 | 18.2982 | 50.1296 | 23.3685 | 99.9810 | 0.4189 |
| | Liuan | 648467.8200 | 42.0124 | 1.1854 | 37.9672 | 22.4652 | 109.0425 | 16.9225 | 99.9607 | 0.8558 |
| | Maanshan | 40878.5400 | 10.0998 | 1.0775 | 1.6961 | 11.7904 | 59.7589 | 22.1272 | 98.7664 | 0.9995 |
| | Su4zhou | 8347.4100 | 0.8410 | 0.2254 | 0.2056 | 1.9796 | 54.4902 | 39.2486 | 97.5572 | 1.0000 |
| | Tongling | 59633.5500 | 19.9977 | 0.8930 | 3.0828 | 15.6442 | 49.5043 | 20.1476 | 99.2053 | 0.9969 |
| | Wuhu | 78677.1900 | 13.0915 | 1.0393 | 1.8048 | 14.0904 | 77.7791 | 14.4254 | 99.1789 | 0.9989 |
| | Xuancheng | 754508.8800 | 61.2457 | 1.6325 | 50.5140 | 29.6793 | 107.2492 | 15.2248 | 99.9525 | 0.7441 |

| | | | | | | | | | | |
|----------|--------------|--------------|---------|--------|---------|---------|---------|---------|---------|--------|
| Jiangsu | | 12100.3200 | 1.9213 | 0.3227 | 0.6849 | 2.7089 | 45.6370 | 39.5191 | 88.5360 | 0.9998 |
| | Changzhou | 22644.6300 | 5.1839 | 0.7197 | 1.5779 | 7.4717 | 56.0837 | 25.4129 | 98.6017 | 0.9997 |
| | Huaian | 14601.6000 | 1.4516 | 0.2929 | 0.8168 | 2.6620 | 55.6998 | 28.2016 | 99.1513 | 0.9999 |
| | Liangyungang | 7613.4600 | 1.0313 | 0.1914 | 0.4956 | 1.8443 | 39.0464 | 18.5112 | 98.9472 | 1.0000 |
| | Nanjing | 41284.3500 | 6.2667 | 0.7957 | 0.8730 | 8.7180 | 71.7461 | 19.7992 | 98.2016 | 0.9998 |
| | Nantong | 132.0300 | 0.0145 | 0.0277 | 0.0019 | 0.0882 | 17.4026 | 43.8096 | 73.8836 | 1.0000 |
| | Su1zhou | 16042.3200 | 1.8591 | 0.4989 | 0.2988 | 3.0438 | 51.8722 | 51.0871 | 97.5862 | 1.0000 |
| | Suqian | 427.6800 | 0.0501 | 0.1360 | 0.0038 | 0.3942 | 40.7174 | 46.2249 | 73.8548 | 1.0000 |
| | Tai4zhou | 91.8000 | 0.0158 | 0.0509 | 0.0011 | 0.1245 | 18.8594 | 55.1399 | 66.2667 | 1.0000 |
| | Wuxi | 37699.2900 | 8.0502 | 0.6966 | 5.1475 | 7.2037 | 44.4795 | 29.0891 | 99.4554 | 0.9973 |
| | Xuzhou | 6551.6400 | 0.5887 | 0.2632 | 0.0405 | 1.6417 | 56.7907 | 72.4230 | 94.1224 | 1.0000 |
| | Yancheng | 1216.5300 | 0.0793 | 0.1517 | 0.0048 | 0.4922 | 54.0687 | 55.1387 | 79.1111 | 1.0000 |
| | Yangzhou | 854.1900 | 0.1300 | 0.2547 | 0.0089 | 0.8001 | 45.1897 | 50.3744 | 79.8199 | 1.0000 |
| | Zhenjiang | 19050.6600 | 2.0132 | 0.2321 | 0.2992 | 2.6537 | 45.4419 | 22.5631 | 98.3397 | 1.0000 |
| Shanghai | Shanghai | 1194.3000 | 0.1635 | 0.2060 | 0.0189 | 0.7861 | 41.5195 | 35.4920 | 82.1621 | 1.0000 |
| Zhejiang | | 612641.5691 | 56.7008 | 0.9634 | 37.1477 | 22.0286 | 67.4778 | 28.8603 | 99.5410 | 0.7845 |
| | Hangzhou | 1194297.6600 | 70.7657 | 0.7771 | 56.8351 | 20.2602 | 80.3648 | 38.2550 | 99.9778 | 0.6698 |
| | Huzhou | 227888.4600 | 39.1229 | 1.5803 | 27.0209 | 21.3959 | 67.1241 | 23.7839 | 99.8771 | 0.9251 |
| | Jiaxing | 2407.8600 | 0.5233 | 0.1300 | 0.2150 | 0.9033 | 21.1402 | 34.4805 | 96.2922 | 1.0000 |
| | Jinhua | 697369.9500 | 63.8548 | 1.1933 | 20.2188 | 22.7085 | 76.7518 | 29.8435 | 99.9066 | 0.9093 |
| | Lishui | 1585016.4600 | 91.8361 | 0.4310 | 91.1240 | 16.8763 | 60.0325 | 28.3326 | 99.9963 | 0.1696 |

| | | | | | | | | | |
|----------|-------------|---------|--------|---------|---------|---------|---------|---------|--------|
| Ningbo | 431368.7400 | 46.3577 | 0.6843 | 22.5270 | 18.9619 | 68.7856 | 29.2486 | 99.8838 | 0.9417 |
| Quzhou | 624391.9200 | 70.5942 | 1.1997 | 35.6911 | 22.3927 | 65.1471 | 26.0217 | 99.9281 | 0.8071 |
| Shaoxing | 473679.7200 | 57.2159 | 1.5186 | 45.3745 | 28.0384 | 86.5080 | 25.7126 | 99.9510 | 0.7922 |
| Taizhou | 609080.9400 | 64.1809 | 0.7512 | 56.0771 | 23.1078 | 72.3709 | 27.9430 | 99.9653 | 0.6851 |
| Wenzhou | 835997.5800 | 72.9130 | 0.7396 | 43.4895 | 28.3518 | 91.0776 | 20.8294 | 99.9718 | 0.7449 |
| Zhoushan | 57557.9700 | 46.3440 | 1.5918 | 10.0512 | 39.3178 | 52.9537 | 33.0123 | 99.2014 | 0.9848 |

*The province-level values were the average values of the city-level values of each province.

Table S2 Details of socioeconomic condition of the cities in YURDA

| Province * | City | Population ** (10,000 people) | GDP per capita (10,000 RMB/people) | Consumption expenditure per capita (RMB/(year*pe ople)) | NO. participants in basic medical insurance (people/1,000 people) | NO. hospital beds (item/1,000 people) | NO. doctors (people/1,0 00 people) | Park area per capita (m ²) |
|---------------|-----------|--|---|---|---|--|---|--|
| Anhui | | 6323.3000 | 5.0194 | 18237.4375 | 144.3200 | 4.1570 | 2.0867 | 15.4425 |
| | Anqing | 469.1000 | 4.1088 | 15433.0000 | 96.1599 | 3.5763 | 1.8934 | 16.2800 |
| | Benghu | 339.2000 | 5.0662 | 21444.0000 | 151.4109 | 5.0445 | 2.1295 | 13.5600 |
| | Bozhou | 523.7000 | 2.4547 | 8981.0000 | 47.8769 | 2.7247 | 1.3763 | 15.8400 |
| | Chizhou | 147.4000 | 4.6865 | 15772.0000 | 102.4122 | 4.0224 | 2.0415 | 17.5700 |
| | Chuzhou | 411.4000 | 4.3999 | 14076.0000 | 114.0529 | 3.6320 | 1.7229 | 15.2200 |
| | Fuyang | 820.7000 | 2.1589 | 8984.0000 | 54.2233 | 3.9889 | 1.8761 | 19.7000 |
| | Hefei | 808.7000 | 9.7470 | 39271.0000 | 250.8416 | 5.9458 | 2.7624 | 13.3400 |
| | Huaibei | 225.4000 | 4.3962 | 14884.0000 | 190.1787 | 4.1120 | 2.0458 | 17.4300 |
| | Huainan | 349.0000 | 3.2487 | 15616.0000 | 185.8697 | 4.6083 | 1.9838 | 13.1400 |
| | Huangshan | 140.7000 | 4.8579 | 25332.0000 | 150.7638 | 4.7766 | 2.4397 | 15.2200 |
| | Liuan | 483.7000 | 2.6731 | 11349.0000 | 79.5088 | 2.9061 | 2.0905 | 14.9400 |
| | Maanshan | 233.7000 | 8.2695 | 25762.0000 | 234.2917 | 3.6339 | 2.3142 | 15.0200 |
| | Su4zhou | 568.1000 | 2.8757 | 8437.0000 | 58.8123 | 2.8738 | 1.6560 | 13.7000 |

| | | | | | | | | |
|----------|--------------|-----------|---------|------------|----------|--------|--------|---------|
| | Tongling | 162.9000 | 7.5524 | 21343.0000 | 255.5169 | 5.7463 | 2.6074 | 17.7800 |
| | Wuhu | 374.8000 | 8.8085 | 26433.0000 | 207.6309 | 4.8355 | 2.3693 | 12.9200 |
| | Xuancheng | 264.8000 | 5.0065 | 18682.0000 | 129.5687 | 4.0845 | 2.0777 | 15.4200 |
| Jiangsu | | 8050.7000 | 11.4406 | 46631.6429 | 315.3365 | 4.5310 | 2.7473 | 15.4000 |
| | Changzhou | 472.8600 | 14.9277 | 68408.0000 | 446.6345 | 4.4243 | 2.9782 | 12.2000 |
| | Huaian | 492.5000 | 7.3204 | 22097.0000 | 176.8028 | 3.7799 | 2.7307 | 14.2000 |
| | Liangyungang | 452.0000 | 6.1332 | 20998.0000 | 172.9830 | 3.9771 | 2.6424 | 14.4000 |
| | Nanjing | 843.6200 | 15.2886 | 83679.0000 | 467.5973 | 5.3515 | 3.4156 | 15.5000 |
| | Nantong | 731.0000 | 11.5320 | 40482.0000 | 273.9034 | 4.6066 | 2.5815 | 19.0000 |
| | Su1zhou | 1072.1700 | 17.3765 | 81632.0000 | 581.7497 | 4.5795 | 2.5929 | 13.0000 |
| | Suqian | 492.5900 | 5.5906 | 14109.0000 | 114.8992 | 5.6669 | 2.4534 | 15.5000 |
| | Tai4zhou | 463.5700 | 10.9988 | 25504.0000 | 306.8715 | 4.4709 | 2.7044 | 14.9000 |
| | Wuxi | 657.4500 | 17.4270 | 73897.0000 | 287.6908 | 5.3562 | 2.8307 | 14.9000 |
| | Xuzhou | 880.2000 | 7.6915 | 29684.0000 | 176.7700 | 4.6017 | 2.8545 | 14.3000 |
| | Yancheng | 720.0000 | 7.5987 | 21560.0000 | 189.2085 | 4.0493 | 2.6046 | 14.2000 |
| | Yangzhou | 453.1000 | 12.0944 | 33922.0000 | 301.4227 | 3.7790 | 2.4744 | 19.0000 |
| | Zhenjiang | 319.6400 | 12.6906 | 50218.0000 | 302.0890 | 3.5787 | 2.5705 | 19.1000 |
| Shanghai | Shanghai | 2475.0000 | 13.4982 | 86653.0000 | 616.0889 | 5.2124 | 3.0282 | 8.2000 |
| Zhejiang | | 5723.3000 | 9.4169 | 46838.1818 | 345.1207 | 4.7981 | 3.0493 | 14.3473 |

| | | | | | | | |
|----------|----------|---------|------------|----------|--------|--------|---------|
| Hangzhou | 980.6000 | 14.0180 | 73841.0000 | 562.3654 | 6.6832 | 3.9908 | 13.5800 |
| Huzhou | 299.5000 | 9.0304 | 48586.0000 | 415.9385 | 4.1840 | 2.7222 | 17.4000 |
| Jiaxing | 472.6000 | 10.3858 | 53850.0000 | 486.3922 | 5.9256 | 2.6144 | 14.9000 |
| Jinhua | 560.4000 | 7.3428 | 37302.0000 | 235.1912 | 4.3201 | 2.5496 | 8.3000 |
| Lishui | 219.9000 | 6.3611 | 25293.0000 | 181.9443 | 5.0574 | 3.2918 | 11.3500 |
| Ningbo | 820.2000 | 13.2603 | 68904.0000 | 444.5672 | 3.9068 | 2.8375 | 19.9000 |
| Quzhou | 218.5000 | 6.6936 | 27808.0000 | 301.0487 | 5.6121 | 3.2563 | 13.6500 |
| Shaoxing | 501.0000 | 10.7853 | 44913.0000 | 369.3149 | 4.1477 | 3.0004 | 14.1000 |
| Tai1zhou | 611.8000 | 7.9541 | 39122.0000 | 230.5368 | 4.1416 | 2.7894 | 14.4300 |
| Wenzhou | 921.5000 | 6.5055 | 40255.0000 | 203.3203 | 3.9300 | 2.9818 | 12.2100 |
| Zhoushan | 117.3000 | 11.2490 | 55346.0000 | 365.7085 | 4.8701 | 3.5085 | 18.0000 |

*The province-level values were the average values of the city-level values of each province, except the population.

** The province-level population were the sum of the city-level values of each province.