Table S1 Forest area estimated based on data from the Chinese Academy of Sciences by province

| Province | Total Grid Area [a] $\times10^4 km^2$ | Forested Area [b], $\times10^4 km^2$ | Vegetation Type, $\times10^3 km^2$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Coniferous Forest | Deciduous Broadleaf Forest | Evergreen Broadleaf Forest | Mixed Forest | Shrub | grass | crop |
| Anhui | 13.6 | 2.2 | 17.8 | 2.4 | 1.7 | 0.0 | 7.9 | 7.2 | 92.6 |
| Beijing | 1.6 | 0.1 | 0.0 | 1.0 | 0.0 | 0.0 | 4.5 | 0.2 | 9.7 |
| Chongqing | 8.0 | 1.3 | 8.5 | 0.7 | 3.5 | 0.0 | 16.0 | 8.6 | 41.7 |
| Fujian | 12.1 | 7.2 | 56.7 | 0.1 | 15.7 | 0.0 | 24.6 | 2.3 | 17.6 |
| Gansu | 39.2 | 3.4 | 14.0 | 19.0 | 0.3 | 0.3 | 23.4 | 98.3 | 81.9 |
| Guangdong | 17.9 | 3.5 | 30.5 | 0.0 | 4.9 | 0.0 | 68.7 | 13.6 | 54.6 |
| Guangxi | 23.8 | 6.9 | 49.6 | 3.7 | 15.7 | 0.0 | 62.9 | 36.9 | 66.3 |
| Guizhou | 17.4 | 3.5 | 27.2 | 3.4 | 4.3 | 0.0 | 62.9 | 29.8 | 45.7 |
| Hainan | 3.5 | 0.8 | 0.5 | 0.0 | 7.0 | 0.0 | 8.5 | 4.3 | 12.8 |
| Hebei | 18.1 | 1.4 | 4.2 | 9.9 | 0.0 | 0.0 | 18.1 | 26.6 | 120.8 |
| Heilongjiang | 45.6 | 20.2 | 64.2 | 126.7 | 0.0 | 10.6 | 8.3 | 77.7 | 142.9 |
| Henan | 16.0 | 2.2 | 3.5 | 18.8 | 0.0 | 0.0 | 7.0 | 2.8 | 124.4 |
| Hong Kong | 0.1 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.2 |
| Hubei | 18.1 | 2.6 | 16.4 | 9.1 | 0.2 | 0.0 | 41.9 | 3.1 | 99.6 |
| Hunan | 20.9 | 8.0 | 70.4 | 2.9 | 6.8 | 0.0 | 41.1 | 13.0 | 64.6 |
| Inner Mongolia | 113.1 | 16.4 | 65.2 | 98.5 | 0.0 | 0.0 | 40.3 | 501.5 | 106.3 |
| Jiangsu | 9.8 | 0.1 | 0.6 | 0.0 | 0.3 | 0.0 | 0.0 | 0.6 | 85.2 |
| Jiangxi | 16.5 | 6.2 | 45.1 | 0.6 | 16.5 | 0.0 | 10.4 | 32.5 | 52.8 |
| Jilin | 18.7 | 7.4 | 8.2 | 58.5 | 0.0 | 7.1 | 11.4 | 10.4 | 86.0 |
| Liaoning | 14.2 | 4.0 | 8.0 | 31.8 | 0.0 | 0.6 | 19.8 | 8.7 | 67.9 |
| Ningxia | 5.0 | 0.1 | 0.4 | 0.2 | 0.0 | 0.0 | 1.6 | 17.8 | 15.8 |
| Qinghai | 69.1 | 0.7 | 5.9 | 0.7 | 0.0 | 0.0 | 39.4 | 415.6 | 3.4 |
| Shaanxi | 19.9 | 4.2 | 12.1 | 30.1 | 0.1 | 0.0 | 28.7 | 39.1 | 87.3 |
| Shandong | 14.8 | 2.0 | 11.3 | 9.0 | 0.0 | 0.0 | 0.6 | 7.6 | 110.9 |
| Shanghai | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 |
| Shanxi | 15.1 | 1.7 | 6.6 | 10.2 | 0.0 | 0.0 | 17.8 | 25.5 | 90.4 |
| Sichuan | 47.1 | 11.1 | 80.7 | 4.8 | 25.3 | 0.6 | 108.4 | 113.8 | 120.6 |
| Taiwan | 3.6 | 1.6 | 1.2 | 0.0 | 10.3 | 4.1 | 0.0 | 0.2 | 17.5 |
| Tianjin | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 8.8 |
| Tibet | 116.9 | 10.3 | 65.9 | 0.4 | 36.3 | 0.2 | 107.8 | 712.7 | 7.2 |
| Xinjiang | 159.2 | 2.3 | 14.4 | 9.1 | 0.0 | 0.0 | 10.1 | 336.0 | 60.6 |
| Yunnan | 38.4 | 11.0 | 77.5 | 0.3 | 31.4 | 0.3 | 74.1 | 91.3 | 101.1 |
| Zhejiang | 10.0 | 5.0 | 40.5 | 2.1 | 7.4 | 0.0 | 9.6 | 0.1 | 34.7 |
| Total | 928.9 | 147.3 | 807.2 | 454.0 | 187.6 | 23.7 | 876.0 | 2640.2 | 2036.9 |

[a] Total grid area was calculated from MM5 modeling grid cell.

[b] Forested area include areas covered by evergreen coniferous forest, evergreen broadleaf forest, deciduous coniferous forest, deciduous broadleaf forest and mixed forests