**Attachment**

**Saihanba historical environmental data**（data source: Data of Saihanba mechanical forest farm in Hebei Province）

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Time** | **Forest cover rate** | **Covered area** | **Conservation of water** | **CO2 absorption** | **Oxygen release** |
| 1962 | 13.57 | 19.00 | 0.09 | 2.74 | 1.90 |
| 1963 | 15.94 | 22.32 | 0.09 | 2.76 | 1.92 |
| 1964 | 18.25 | 25.56 | 0.09 | 2.81 | 1.96 |
| 1965 | 20.50 | 28.71 | 0.10 | 2.90 | 2.02 |
| 1966 | 22.70 | 31.77 | 0.10 | 3.03 | 2.11 |
| 1967 | 24.83 | 34.76 | 0.11 | 3.20 | 2.22 |
| 1968 | 26.90 | 37.66 | 0.11 | 3.40 | 2.36 |
| 1969 | 28.91 | 40.47 | 0.12 | 3.63 | 2.52 |
| 1970 | 30.86 | 43.21 | 0.13 | 3.90 | 2.71 |
| 1971 | 32.76 | 45.86 | 0.14 | 4.20 | 2.92 |
| 1972 | 34.60 | 48.43 | 0.15 | 4.53 | 3.15 |
| 1973 | 36.37 | 50.92 | 0.16 | 4.89 | 3.40 |
| 1974 | 38.10 | 53.34 | 0.17 | 5.29 | 3.68 |
| 1975 | 39.76 | 55.67 | 0.18 | 5.72 | 3.98 |
| 1976 | 41.37 | 57.92 | 0.19 | 6.18 | 4.30 |
| 1977 | 42.92 | 60.09 | 0.21 | 6.67 | 4.64 |
| 1978 | 44.42 | 62.19 | 0.22 | 7.19 | 5.00 |
| 1979 | 45.86 | 64.21 | 0.23 | 7.73 | 5.38 |
| 1980 | 47.25 | 66.15 | 0.24 | 8.31 | 5.78 |
| 1981 | 48.58 | 68.01 | 0.25 | 8.91 | 6.20 |
| 1982 | 49.86 | 69.80 | 0.26 | 9.55 | 6.64 |
| 1983 | 51.04 | 71.46 | 0.28 | 10.21 | 7.10 |
| 1984 | 52.13 | 72.98 | 0.29 | 11.35 | 7.89 |
| 1985 | 53.13 | 74.38 | 0.30 | 13.20 | 9.18 |
| 1986 | 54.09 | 75.73 | 0.31 | 15.40 | 10.71 |
| 1987 | 55.04 | 77.05 | 0.33 | 17.61 | 12.25 |
| 1988 | 56.00 | 78.40 | 0.34 | 19.47 | 13.54 |
| 1989 | 57.00 | 79.80 | 0.36 | 20.62 | 14.34 |
| 1990 | 58.08 | 81.31 | 0.37 | 21.12 | 14.69 |
| 1991 | 59.24 | 82.93 | 0.39 | 22.77 | 15.84 |
| 1992 | 60.44 | 84.62 | 0.40 | 24.65 | 17.15 |
| 1993 | 61.69 | 86.36 | 0.42 | 26.56 | 18.48 |
| 1994 | 62.94 | 88.11 | 0.44 | 28.56 | 19.86 |
| 1995 | 64.18 | 89.85 | 0.46 | 30.69 | 21.35 |
| 1996 | 65.38 | 91.54 | 0.48 | 33.01 | 22.96 |
| 1997 | 66.53 | 93.15 | 0.51 | 35.56 | 24.73 |
| 1998 | 67.61 | 94.65 | 0.53 | 38.41 | 26.71 |
| 1999 | 68.59 | 96.02 | 0.56 | 41.60 | 28.93 |
| 2000 | 69.44 | 97.22 | 0.58 | 45.18 | 31.43 |
| 2001 | 70.16 | 98.23 | 0.61 | 51.05 | 35.51 |
| 2002 | 70.71 | 99.00 | 0.64 | 56.72 | 39.45 |
| 2003 | 71.13 | 99.58 | 0.68 | 59.96 | 41.70 |
| 2004 | 71.47 | 100.05 | 0.71 | 62.84 | 43.71 |
| 2005 | 71.74 | 100.44 | 0.75 | 65.40 | 45.49 |
| 2006 | 71.98 | 100.77 | 0.79 | 67.68 | 47.08 |
| 2007 | 72.20 | 101.08 | 0.83 | 69.72 | 48.49 |
| 2008 | 72.43 | 101.40 | 0.87 | 71.56 | 49.77 |
| 2009 | 72.68 | 101.75 | 0.92 | 73.23 | 50.93 |
| 2010 | 72.97 | 102.16 | 0.96 | 74.77 | 52.01 |
| 2011 | 73.33 | 102.67 | 1.01 | 76.22 | 53.01 |
| 2012 | 73.79 | 103.30 | 1.07 | 77.62 | 53.99 |
| 2013 | 74.50 | 104.30 | 1.12 | 78.93 | 54.90 |
| 2014 | 75.52 | 105.73 | 1.18 | 80.11 | 55.72 |
| 2015 | 76.70 | 107.39 | 1.24 | 81.18 | 56.47 |
| 2016 | 77.89 | 109.05 | 1.30 | 82.16 | 57.15 |
| 2017 | 78.93 | 110.50 | 1.37 | 83.07 | 57.78 |
| 2018 | 79.82 | 111.74 | 1.56 | 83.91 | 58.37 |
| 2019 | 80.66 | 112.93 | 1.94 | 84.69 | 58.91 |
| 2020 | 81.46 | 114.05 | 2.40 | 85.40 | 59.40 |
| 2021 | 82.21 | 115.10 | 2.84 | 86.03 | 59.84 |

**Data Affecting Sandstorms in Beijing**（data source: China Statistical Yearbook）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Time** | **Y** | **X1** | **X2** | **X3** | **X4** | **X5** | **X6** |
| 2005 | 10 | 100.44 | 227509.5309 | 0.75 | 52.35 | 34.52 | 7 |
| 2006 | 38 | 100.77 | 253051.2738 | 0.79 | 64.93 | 46.8 | 6.68 |
| 2007 | 11 | 101.08 | 281460.5038 | 0.83 | 50.33 | 37.74 | 5.66 |
| 2008 | 6 | 101.4 | 313059.1441 | 0.87 | 55.85 | 39.6 | 6.18 |
| 2009 | 5 | 101.75 | 348205.2593 | 0.92 | 54.09 | 35.59 | 6.35 |
| 2010 | 16 | 102.16 | 387297.1127 | 0.96 | 45.84 | 32.58 | 5.99 |
| 2011 | 8 | 102.67 | 430777.6792 | 1.01 | 55.58 | 37.32 | 6.25 |
| 2012 | 3 | 103.3 | 479139.6652 | 1.07 | 50.26 | 35.39 | 5.76 |
| 2013 | 8 | 104.3 | 532931.0915 | 1.12 | 52.45 | 35.26 | 5.6 |
| 2014 | 11 | 105.73 | 592761.5034 | 1.18 | 59.29 | 41.03 | 5.49 |
| 2015 | 18 | 107.39 | 659308.8779 | 1.24 | 57.45 | 37.16 | 5.56 |
| 2016 | 11 | 109.05 | 733327.306 | 1.3 | 58.55 | 38.32 | 5.28 |
| 2017 | 9 | 110.5 | 815655.5385 | 1.37 | 56.87 | 38.81 | 5.39 |
| 2018 | 4 | 111.74 | 907226.4894 | 1.56 | 56.65 | 37.29 | 4.41 |
| 2019 | 6 | 112.93 | 1009077.808 | 1.94 | 59.58 | 38.48 | 5.82 |
| 2020 | 4 | 114.05 | 1122363.638 | 2.4 | 57.84 | 40.1 | 5.36 |
| 2021 | 25 | 115.1 | 1248367.693 | 2.84 | 56.35 | 42.13 | 4.58 |

**Environmental data of some cities in China**（data source: China Statistical Yearbook）

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **City** | **Area** | **Population** | **GDP** | **Precipitation** | **forest coverage** | **carbon emission** |
| Beijing | 16410.54 | 2189.3 | 30162.6 | 644.2 | 44.4 | 7575 |
| Shanghai | 6340 | 2428.14 | 38700.58 | 1388.8 | 18.2 | 18489 |
| Wuhan | 8569.15 | 1400 | 15616.1 | 1269 | 15 | 17300 |
| Shenzhen | 1997 | 1343.88 | 27670.24 | 1918 | 39.78 |  |
| Guangzhou | 7434 | 1867.66 | 23628.6 | 1777 | 41.6 | 19276 |
| Tianjin | 11919.7 | 1561.83 | 14104.28 | 575 | 9.87 | 15846 |
| Changsha | 11819 | 1000 | 12142.52 | 1361.6 | 23.04 |  |
| Qingdao | 758.16 | 1007.17 | 11741.31 | 662.1 | 14.46 | 7110 |
| Chengdu | 14335 | 1658.1 | 17012.65 | 957 | 40.2 |  |
| Hangzhou | 16850 | 1190 | 16100 | 2041.9 | 66.83 |  |
| Nanjing | 6587.02 | 932 | 14800 | 1090.6 | 25.86 |  |
| Suzhou | 6267 | 1275 | 20170.5 | 1094 | 12.19 | 11900 |
| Weihai | 5799.84 | 290.7 | 2963.73 | 730.2 | 42.2 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Area** | **City** | **Area** | **Population** | **GDP** | **Precipitation** | **forest coverage** |
| Saihanba | Chengde | 39519 | 335.4 | 1550 | 530.13 | 23.04 |
| Hobq Desert | Erdos | 87000 | 215 | 1603 | 348.3 | 26.9 |
| Mu Us Desert | Yulin | 43500 | 342.4 | 2212.76 | 405 | 34.8 |
| Haba Lake | Wuzhong | 21400 | 134.6 | 621.8 | 231.7 | 17.5 |
| Jiatang | Yushu | 267000 | 141.3 | 60 | 486 | 7.5 |
| alxa plateau | Alxa | 47000 | 26.2 | 304.75 | 208.1 | 8.01 |
| Minqin | Gansu | 15900 | 30.4864 | 72.02 | 113 | 17.91 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **City** | **Proportion of**  **cultivated land** | **Proportion of**  **forest land** | **Grassland**  **proportion** | **land used**  **for building** | **Unused**  **land** |
| Erdos | 0.046 | 0.131 | 0.646 | 0.013 | 0.159 |
| Alax | 0.0007 | 0.0312 | 0.4982 | 0.0018 | 0.4676 |
| Yulin | 0.243 | 0.286 | 0.34 | 0.0363 | 0.094 |