**Chemical characteristics of precipitation in a typical urban site of the hinterland in Three Gorges Reservoir, China­**

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**Table S1) Monthly data of ionic concentration of precipitation, mass concentration of particulate matter, and meteorological factors in Wanzhou.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | pH | EC (μS cm–1) | F– (ueq L–1) | Cl– (ueq L–1) | NO3– (ueq L–1) | SO42– (ueq L–1) | K+  (ueq L–1) | Na+  (ueq L–1) | Ca2+  (ueq L–1) | Mg2+  (ueq L–1) | NH4+  (ueq L–1) | PM10 (ug m–3) | PM2.5 (ug m–3) | Rainfall amount(mm) | Wind speed (m s–1) | Wind direction (°) |
| Jan-14 | 4.26  | 72.14  | 0.76  | 1.11  | 5.85  | 15.11  | 25.10  | 34.77  | 115.46  | 17.06  | 192.63  | 167.10  | 118.40  | 9.30  | 0.67  | 152.65  |
| Feb-14 | 4.49  | 65.66  | 0.18  | 0.84  | 2.69  | 14.05  | 25.59  | 31.72  | 72.21  | 10.95  | 159.88  | 96.40  | 64.10  | 4.10  | 0.83  | 122.33  |
| Mar-14 | 4.57  | 30.86  | 2.12  | 7.14  | 27.34  | 151.23  | 11.03  | 20.11  | 54.97  | 8.00  | 79.99  | 94.30  | 57.40  | 58.40  | 0.84  | 124.91  |
| Apr-14 | 4.95  | 28.24  | 2.17  | 7.91  | 34.28  | 180.74  | 9.85  | 11.92  | 60.68  | 9.47  | 74.72  | 62.60  | 37.00  | 135.40  | 0.85  | 124.58  |
| May-14 | 5.74  | 31.69  | 1.20  | 86.59  | 27.62  | 151.07  | 41.25  | 7.52  | 45.17  | 7.20  | 73.65  | 83.40  | 46.40  | 117.00  | 0.80  | 129.81  |
| Jun-14 | 5.08  | 23.47  | 2.05  | 16.55  | 36.53  | 182.54  | 6.42  | 4.70  | 24.10  | 2.85  | 53.33  | 79.90  | 49.80  | 208.00  | 0.83  | 124.59  |
| Jul-14 | 6.20  | 25.16  | 1.52  | 11.74  | 34.31  | 52.33  | 8.99  | 12.91  | 66.45  | 7.72  | 68.97  | 58.80  | 29.90  | 18.40  | 0.98  | 105.38  |
| Aug-14 | 4.59  | 16.78  | 2.31  | 4.39  | 17.33  | 30.69  | 2.43  | 3.00  | 19.27  | 2.91  | 31.59  | 53.60  | 30.80  | 300.30  | 0.93  | 113.25  |
| Sep-14 | 5.34  | 12.31  | 0.84  | 12.07  | 12.27  | 23.83  | 9.15  | 5.37  | 22.36  | 2.00  | 29.25  | 56.20  | 32.30  | 173.30  | 0.79  | 108.29  |
| Oct-14 | 4.50  | 29.05  | 1.15  | 7.23  | 28.31  | 74.18  | 12.20  | 97.78  | 25.16  | 3.13  | 32.54  | 69.40  | 42.10  | 96.00  | 0.76  | 122.80  |
| Nov-14 | 4.73  | 29.18  | 1.48  | 12.10  | 49.68  | 288.75  | 18.96  | 102.07  | 41.48  | 5.30  | 39.46  | 61.90  | 36.90  | 65.50  | 0.69  | 130.94  |
| Dec-14 | 5.65  | 65.28  | 15.50  | 212.10  | 236.25  | 1142.76  | 73.14  | 193.06  | 224.50  | 31.39  | 28.56  | 107.40  | 67.60  | 3.50  | 0.66  | 148.51  |
| Jan-15 | 4.18  | 31.30  | 1.00  | 7.70  | 42.80  | 145.39  | 57.70  | 11.72  | 34.38  | 4.61  | 95.82  | 125.80  | 83.20  | 29.50  | 0.81  | 115.38  |
| Feb-15 | 5.01  | 38.19  | 6.58  | 28.13  | 53.87  | 367.89  | 36.14  | 11.98  | 87.31  | 23.49  | 20.27  | 89.00  | 64.00  | 15.80  | 0.80  | 122.83  |
| Mar-15 | 5.90  | 38.31  | 6.68  | 8.30  | 71.34  | 326.43  | 15.57  | 13.29  | 219.39  | 36.79  | 13.63  | 86.40  | 50.40  | 12.90  | 0.77  | 124.47  |
| Apr-15 | 6.23  | 21.67  | 1.91  | 10.97  | 31.37  | 106.76  | 36.99  | 8.58  | 70.90  | 11.66  | 87.87  | 68.20  | 37.90  | 83.30  | 1.05  | 115.26  |
| May-15 | 6.67  | 15.42  | 1.24  | 23.22  | 30.79  | 114.18  | 18.92  | 3.35  | 23.12  | 3.84  | 84.89  | 64.70  | 36.00  | 141.40  | 0.88  | 109.09  |

**Continued Table**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Jun-15 | 6.04  | 14.47  | 0.72  | 20.98  | 31.27  | 96.72  | 44.50  | 2.62  | 12.05  | 1.77  | 83.22  | 50.90  | 28.00  | 224.20  | 0.66  | 115.59  |
| Jul-15 | 5.46  | 15.15  | 0.15  | 2.92  | 14.09  | 57.66  | 0.93  | 8.18  | 31.68  | 4.75  | 59.26  | 54.90  | 31.40  | 152.80  | 0.83  | 97.40  |
| Aug-15 | 4.62  | 16.09  | 0.91  | 6.18  | 25.67  | 112.07  | 2.11  | 1.36  | 32.99  | 3.62  | 64.65  | 52.30  | 28.80  | 62.80  | 1.00  | 99.71  |
| Jun-15 | 6.04  | 14.47  | 0.72  | 20.98  | 31.27  | 96.72  | 44.50  | 2.62  | 12.05  | 1.77  | 83.22  | 50.90  | 28.00  | 224.20  | 0.66  | 115.59  |
| Jul-15 | 5.46  | 15.15  | 0.15  | 2.92  | 14.09  | 57.66  | 0.93  | 8.18  | 31.68  | 4.75  | 59.26  | 54.90  | 31.40  | 152.80  | 0.83  | 97.40  |
| Aug-15 | 4.62  | 16.09  | 0.91  | 6.18  | 25.67  | 112.07  | 2.11  | 1.36  | 32.99  | 3.62  | 64.65  | 52.30  | 28.80  | 62.80  | 1.00  | 99.71  |
| Jun-15 | 6.04  | 14.47  | 0.72  | 20.98  | 31.27  | 96.72  | 44.50  | 2.62  | 12.05  | 1.77  | 83.22  | 50.90  | 28.00  | 224.20  | 0.66  | 115.59  |
| Jul-15 | 5.46  | 15.15  | 0.15  | 2.92  | 14.09  | 57.66  | 0.93  | 8.18  | 31.68  | 4.75  | 59.26  | 54.90  | 31.40  | 152.80  | 0.83  | 97.40  |
| Sep-15 | 4.40  | 16.16  | 0.52  | 6.94  | 27.58  | 112.23  | 3.45  | 6.45  | 23.92  | 5.17  | 51.90  | 56.20  | 34.40  | 218.20  | 0.75  | 112.44  |
| Oct-15 | 5.63  | 23.45  | 0.86  | 10.71  | 22.31  | 160.52  | 5.98  | 2.78  | 35.19  | 7.64  | 107.54  | 76.50  | 45.70  | 78.90  | 0.77  | 112.42  |
| Nov-15 | 5.53  | 24.25  | 2.12  | 14.18  | 27.46  | 101.06  | 11.62  | 6.47  | 77.04  | 14.84  | 67.30  | 41.70  | 24.80  | 46.70  | 0.75  | 137.04  |
| Dec-15 | 5.93  | 62.73  | 14.24  | 14.78  | 50.78  | 527.63  | 6.67  | 14.75  | 69.53  | 10.58  | 279.09  | 78.80  | 49.90  | 14.60  | 0.74  | 142.42  |