**Table S1** Information of the experimental sites of observation data used for quantification in this study

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study | Longitude(degree) | Latitude(degree) | Region | Precipitation(mm) | Mean temperature(oC) | Land use | Bulk Density | pH | SOC | Total N | MBC | MBN |
| Wan S, et al., 2015 | 31.14 | 117.07 | SMC | 1072 | 16 | cropland |  | √ | √ | √ | √ | √ |
| Zheng Z, et al., 2014 | 30.95 | 117.02 | SMC | 1325.5 | 16.6 | cropland | √ | √ | √ | √ | √ | √ |
| 31.12 | 117.17 | SMC | 1325.5 | 16.6 | wetland | √ | √ | √ | √ | √ | √ |
| Wang W, et al., 2014 | 30.81 | 116.20 | SMC | 1300 | 15 | forest |  | √ | √ | √ | √ | √ |
| 31.12 | 116.31 | SMC | 1300 | 15 | forest |  | √ | √ | √ | √ | √ |
| 31.11 | 116.44 | SMC | 1300 | 15 | forest |  | √ | √ | √ | √ | √ |
| Ge P, et al., 2014 | 30.88 | 116.30 | SMC | 1300 | 12 | forest | √ | √ | √ | √ | √ | √ |
| 30.88 | 116.30 | SMC | 1300 | 12 | forest | √ | √ | √ | √ | √ | √ |
| 30.88 | 116.30 | SMC | 1300 | 12 | forest | √ | √ | √ | √ | √ | √ |
| 30.88 | 116.30 | SMC | 1300 | 12 | forest | √ | √ | √ | √ | √ | √ |
| Su H, et al., 2011 | 40.44 | 116.05 | TMC | 431.2 | 12.4 | cropland |  | √ | √ | √ | √ | √ |
| Yin G, et al.,2013 | 39.80 | 116.20 | TMC | 504 | 6.5 | forest |  |  | √ | √ | √ | √ |
| Zhang D, et al., 2012 | 40.03 | 115.47 | TMC | 575 | 12.4 | forest |  | √ | √ | √ | √ | √ |
| Li Z, et al., 2011 | 29.28 | 107.56 | SMC | 855 | 16.4 | cropland |  |  | √ | √ | √ | √ |
| Qin H, et al., 2014 | 30.68 | 107.83 | SMC | 1250 | 16 | forest |  |  | √ | √ | √ | √ |
| 30.68 | 107.83 | SMC | 1250 | 16 | forest |  |  | √ | √ | √ | √ |
| Huang R, et al., 2013 | 29.46 | 106.35 | SMC | 855 | 16.4 | cropland |  | √ | √ | √ | √ | √ |
| 24.50 | 117.86 | SMC | 945 | 20.8 | forest | √ | √ | √ | √ | √ | √ |
| Li L, et al., 2007 | 26.19 | 117.43 | SMC | 1749 | 19.1 | forest | √ | √ | √ | √ | √ | √ |
| Zhang X, et al.,2008 | 24.00 | 117.45 | SMC | 1442 | 22 | forest |  | √ | √ | √ | √ | √ |
| Xu H, et al., 2009 | 22.99 | 113.31 | SMC | 1800 | 21 | cropland |  |  | √ | √ | √ | √ |
| 24.79 | 113.60 | SMC | 1800 | 21 | cropland |  |  | √ | √ | √ | √ |
| 20.91 | 110.12 | SMC | 1800 | 21 | cropland |  |  | √ | √ | √ | √ |
| Hu Y, et al., 2002 | 21.07 | 109.84 | SMC | 1885 | 23.5 | forest |  | √ | √ | √ | √ | √ |
| Lu H, et al., 2015 | 37.20 | 102.52 | PMC | 416 | -0.1 | grassland |  | √ | √ | √ | √ | √ |
| Zhang F. 2014 | 38.92 | 100.43 | TCC | 110 | 7.3 | cropland |  | √ | √ | √ | √ | √ |
| Cai X, et al., 2014 | 36.27 | 103.82 | TCC | 200 | 7.2 | forest | √ | √ | √ | √ | √ | √ |
| 35.90 | 103.93 | TCC | 500 | 7.5 | forest | √ | √ | √ | √ | √ | √ |
| Li S, et al., 2013 | 37.18 | 102.78 | PMC | 416 | 0.55 | grassland |  | √ | √ | √ | √ | √ |
| 37.18 | 102.78 | PMC | 416 | 0.55 | grassland |  | √ | √ | √ | √ | √ |
| 35.67 | 104.62 | TCC | 400 | 6.3 | grassland |  | √ | √ | √ | √ | √ |
| Wu Y, et al., 2014 | 35.91 | 103.94 | TCC | 475 | 4.5 | cropland |  | √ | √ | √ | √ | √ |
| 35.90 | 103.95 | TCC | 475 | 4.5 | grassland |  | √ | √ | √ | √ | √ |
| 35.91 | 104.02 | TCC | 475 | 4.5 | forest |  | √ | √ | √ | √ | √ |
| Zhang R, et al.,2014 | 38.64 | 99.78 | PMC | 460 | 3 | grassland | √ | √ | √ | √ | √ | √ |
| 38.64 | 99.78 | PMC | 460 | 3 | forest | √ | √ | √ | √ | √ | √ |
| 38.64 | 99.78 | PMC | 125 | 8.7 | cropland | √ | √ | √ | √ | √ | √ |
| Wang M, et al., 2011 | 35.65 | 107.85 | TCC | 570 | 9 | cropland |  | √ | √ | √ | √ | √ |
| 35.65 | 107.85 | TCC | 570 | 9 | cropland |  | √ | √ | √ | √ | √ |
| Chen D, et al.,2011 | 35.97 | 101.88 | TCC | 620 | 1.2 | grassland | √ | √ | √ | √ | √ | √ |
| Liu W, et al.,2012 | 38.35 | 98.27 | PMC | 476 | -6 | grassland |  |  | √ | √ | √ | √ |
| Wang J, 2009 | 35.47 | 104.73 | TCC | 390.9 | 6.4 | cropland | √ |  | √ | √ | √ | √ |
| 37.32 | 102.77 | PMC | 424.5 | 0.8 | grassland | √ | √ | √ | √ | √ | √ |
| Yang R, et al., 2007 | 36.09 | 103.70 | TCC | 231 | 7.5 | cropland |  | √ | √ | √ | √ | √ |
| Feng S, et al., 2013 | 24.83 | 107.92 | SMC | 1389 | 18.5 | grassland | √ | √ | √ | √ | √ | √ |
| 25.15 | 107.98 | SMC | 1675 | 16.8 | forest | √ | √ | √ | √ | √ | √ |
| Liu Y, et al., 2013 | 24.73 | 108.31 | SMC | 1389.1 | 19.9 | grassland |  | √ | √ | √ | √ | √ |
| 24.73 | 108.31 | SMC | 1389.1 | 19.9 | grassland |  | √ | √ | √ | √ | √ |
| 24.73 | 108.31 | SMC | 1389.1 | 19.9 | grassland |  | √ | √ | √ | √ | √ |
| Lu S, et al., 2012 | 24.83 | 107.92 | SMC | 1389.1 | 18.5 | cropland | √ | √ | √ | √ | √ | √ |
| 24.83 | 107.92 | SMC | 1389.1 | 18.5 | cropland | √ | √ | √ | √ | √ | √ |
| 24.83 | 107.92 | SMC | 1389.1 | 18.5 | cropland | √ | √ | √ | √ | √ | √ |
| 24.83 | 107.92 | SMC | 1389.1 | 18.5 | grassland | √ | √ | √ | √ | √ | √ |
| Xu G, et al., 2013 | 23.39 | 107.40 | SMC | 1500 | 20.6 | forest |  |  | √ | √ | √ | √ |
| 23.39 | 107.40 | SMC | 1500 | 20.6 | grassland |  |  | √ | √ | √ | √ |
| 23.39 | 107.40 | SMC | 1500 | 20.6 | cropland |  |  | √ | √ | √ | √ |
| Shi W, et al., 2013 | 22.35 | 107.87 | SMC | 1300 | 21.5 | forest |  | √ | √ | √ | √ | √ |
| Yu Y, et al., 2013 | 25.14 | 108.28 | SMC | 1389.1 | 15.7 | cropland |  | √ | √ | √ | √ | √ |
| Yang S, et al., 2013 | 23.48 | 109.35 | SMC | 1415.4 | 21.4 | forest |  | √ | √ | √ | √ | √ |
| Song T, et al.,2011 | 24.83 | 107.92 | SMC | 1389 | 18.5 | cropland | √ | √ | √ | √ | √ | √ |
| He X, et al., 2008 | 24.83 | 107.92 | SMC | 1389 | 18.5 | cropland | √ | √ | √ | √ | √ | √ |
| Wei Y, et al., 2010 | 25.10 | 108.43 | SMC | 1389 | 18.5 | cropland |  |  | √ | √ | √ | √ |
| 25.10 | 108.43 | SMC | 1389 | 18.5 | grassland |  |  | √ | √ | √ | √ |
| 25.10 | 108.43 | SMC | 1389 | 18.5 | forest |  |  | √ | √ | √ | √ |
| Yang Y, et al., 2008 | 24.83 | 107.92 | SMC | 1389 | 18.5 | grassland |  | √ | √ | √ | √ | √ |
| Shen H, et al., 2008 | 25.20 | 110.52 | SMC | 1915 | 18 | cropland |  | √ | √ | √ | √ | √ |
| Liu Y, et al., 2011 | 29.25 | 107.98 | SMC | 1850 | 15.3 | forest |  | √ | √ | √ | √ | √ |
| 29.25 | 107.98 | SMC | 1850 | 15.3 | forest |  | √ | √ | √ | √ | √ |
| 29.25 | 107.98 | SMC | 1850 | 15.3 | grassland |  | √ | √ | √ | √ | √ |
| Cui X, et al., 2011 | 25.66 | 105.64 | SMC | 1205 | 18.4 | cropland |  | √ | √ | √ | √ | √ |
| 25.66 | 105.64 | SMC | 1205 | 18.4 | grassland |  | √ | √ | √ | √ | √ |
| 25.66 | 105.64 | SMC | 1205 | 18.4 | forest |  | √ | √ | √ | √ | √ |
| Ding W, et al., 2012 | 27.13 | 105.60 | SMC | 1098 | 15.2 | cropland |  | √ | √ | √ | √ | √ |
| Liu Y, et al., 2011 | 25.25 | 107.98 | SMC | 1850 | 15.4 | forest |  | √ | √ | √ | √ | √ |
| Mo B, et al.,2007 | 25.38 | 107.96 | SMC | 1320.5 | 18.3 | forest |  | √ | √ | √ | √ | √ |
| 25.38 | 107.96 | SMC | 1320.5 | 18.3 | grassland |  | √ | √ | √ | √ | √ |
| Liu L, et al., 2014 | 34.77 | 116.27 | TMC | 627.5 | 14.52 | cropland |  | √ | √ | √ | √ | √ |
| Jiang B, et al.,2011 | 34.62 | 113.47 | TMC | 640.9 | 14.4 | forest |  | √ | √ | √ | √ | √ |
| Zhang J, et al., 2008 | 34.79 | 112.55 | TMC | 644 | 14 | cropland |  |  | √ | √ | √ | √ |
| Wang X, et al.,2008 | 34.64 | 112.48 | TMC | 401 | 14.4 | cropland |  |  | √ | √ | √ | √ |
| Pei X, et al., 2011 | 30.48 | 114.32 | SMC | 1300 | 15.5 | cropland |  | √ | √ | √ | √ | √ |
| Li F, et al., 2013 | 31.26 | 110.76 | SMC | 1050 | 17.3 | grassland |  | √ | √ | √ | √ | √ |
| Liu J, et al., 2012 | 30.74 | 111.33 | SMC | 1200 | 15.5 | cropland |  | √ | √ | √ | √ | √ |
| Peng P, et al., 2005 | 28.98 | 112.73 | SMC | 1350 | 16.5 | cropland | √ |  | √ | √ | √ | √ |
| 29.10 | 112.71 | SMC | 1350 | 16.5 | wetland | √ |  | √ | √ | √ | √ |
| 29.06 | 112.86 | SMC | 1350 | 16.5 | wetland | √ |  | √ | √ | √ | √ |
| Pei X, et al.,2010 | 30.62 | 114.33 | SMC | 1300 | 15.5 | cropland |  | √ | √ | √ | √ | √ |
| Yun P, et al., 2010 | 38.10 | 115.32 | TMC | 661 | 9.8 | cropland |  |  | √ | √ | √ | √ |
| Liu N, et al., 2010 | 38.05 | 114.80 | TMC | 498 | 12.5 | cropland | √ | √ | √ | √ | √ | √ |
| Ding X, et al., 2011 | 47.20 | 124.20 | TMC | 420 | 2.3 | wetland |  | √ | √ | √ | √ | √ |
| Liu C, et al., 2014 | 47.18 | 128.89 | TMC | 676 | -0.3 | forest |  |  | √ | √ | √ | √ |
| Zhao B, et al., 2011 | 51.37 | 125.48 | TMC | 500 | -3 | forest |  |  | √ | √ | √ | √ |
| Jiao X, et al., 2010 | 45.67 | 126.58 | TMC | 575 | 3 | cropland |  | √ | √ | √ | √ | √ |
| Wan Z, & Song C. 2008 | 47.58 | 133.52 | TMC | 600 | 1.9 | wetland |  | √ | √ | √ | √ | √ |
| Sui Y, et al., 2006 | 47.45 | 126.93 | TMC | 628 | 1.1 | cropland |  |  | √ | √ | √ | √ |
| Liu S, & Wang C, et al.,2010 | 45.40 | 127.47 | TMC | 773 | 2.8 | forest | √ | √ | √ | √ | √ | √ |
| 45.40 | 127.47 | TMC | 773 | 2.8 | forest | √ | √ | √ | √ | √ | √ |
| 45.40 | 127.47 | TMC | 773 | 2.8 | forest | √ | √ | √ | √ | √ | √ |
| 45.40 | 127.47 | TMC | 773 | 2.8 | forest | √ | √ | √ | √ | √ | √ |
| 45.40 | 127.47 | TMC | 773 | 2.8 | forest | √ | √ | √ | √ | √ | √ |
| Sui Y, et al.,2010 | 47.70 | 124.75 | TMC | 450 | -0.5 | cropland |  |  | √ | √ | √ | √ |
| Tang H, et al., 2015 | 28.12 | 112.30 | SMC | 1553.7 | 16.8 | cropland |  | √ | √ | √ | √ | √ |
| 26.36 | 110.80 | SMC | 1200 | 17.1 | forest |  | √ | √ | √ | √ | √ |
| Li W, et al., 2010 | 28.93 | 111.86 | SMC | 1342.2 | 16.7 | cropland | √ | √ | √ | √ | √ | √ |
| Duo Y, et al., 2012 | 28.12 | 113.06 | SMC | 1425 | 17.1 | forest |  | √ | √ | √ | √ | √ |
| Yang N, et al., 2014 | 26.80 | 111.83 | SMC | 1325 | 18 | grassland | √ | √ | √ | √ | √ | √ |
| 26.80 | 111.83 | SMC | 1325 | 18 | forest | √ | √ | √ | √ | √ | √ |
| Liu Y, et al., 2013 | 28.90 | 112.81 | SMC | 1375 | 16.7 | wetland | √ | √ | √ | √ | √ | √ |
| 29.17 | 112.79 | SMC | 1375 | 16.7 | wetland | √ | √ | √ | √ | √ | √ |
| 29.40 | 113.08 | SMC | 1375 | 16.7 | wetland | √ | √ | √ | √ | √ | √ |
| Li S, et al., 2014 | 28.39 | 113.30 | SMC | 1482 | 17.1 | forest |  |  | √ | √ | √ | √ |
| Li B, et al., 2015 | 28.39 | 113.30 | SMC | 1412 | 17.1 | forest | √ | √ | √ | √ | √ | √ |
| Yang Z, et al., 2011 | 26.76 | 111.88 | SMC | 1290 | 17.8 | cropland |  |  | √ | √ | √ | √ |
| Yu P, et al., 2013 | 28.10 | 113.03 | SMC | 1422 | 17.2 | forest |  | √ | √ | √ | √ | √ |
| Zhang Y,et al., 2013 | 28.78 | 112.77 | SMC | 1392.62 | 17.1 | cropland |  | √ | √ | √ | √ | √ |
| Zhou W, et al., 2007 | 29.44 | 111.63 | SMC | 1674 | 16.6 | cropland |  | √ | √ | √ | √ | √ |
| 28.90 | 111.97 | SMC | 1678 | 16.6 | cropland |  | √ | √ | √ | √ | √ |
| 28.29 | 112.53 | SMC | 1568 | 17 | cropland |  | √ | √ | √ | √ | √ |
| 27.73 | 111.29 | SMC | 1553 | 17.2 | cropland |  | √ | √ | √ | √ | √ |
| 29.36 | 112.39 | SMC | 1586 | 17.1 | cropland |  | √ | √ | √ | √ | √ |
| 26.73 | 110.64 | SMC | 1419 | 16.7 | cropland |  | √ | √ | √ | √ | √ |
| 28.52 | 112.11 | SMC | 1681 | 16.7 | cropland |  | √ | √ | √ | √ | √ |
| Luo L, et al., 2010 | 28.62 | 113.33 | SMC | 1370 | 17 | cropland |  | √ | √ | √ | √ | √ |
| Huang W, et al., 2006 | 29.22 | 111.51 | SMC | 1330 | 17.1 | cropland |  | √ | √ | √ | √ | √ |
| He Y, et al., 2006 | 27.15 | 110.13 | SMC | 1200 | 16.5 | forest | √ | √ | √ | √ | √ | √ |
| 27.15 | 110.13 | SMC | 1200 | 16.5 | forest | √ | √ | √ | √ | √ | √ |
| Wang X, et al., 2014 | 42.08 | 128.05 | TMC | 1600 | -1.6 | grassland |  | √ | √ | √ | √ | √ |
| Zhang M, et al., 2007 | 43.51 | 124.81 | TMC | 575 | 5.5 | cropland |  |  | √ | √ | √ | √ |
| Wu T, et al., 2014 | 34.34 | 117.52 | TMC | 847.9 | 14.3 | grassland | √ | √ | √ | √ | √ | √ |
| Wang R, et al., 2012 | 31.59 | 119.07 | SMC | 1037 | 15.5 | cropland | √ | √ | √ | √ | √ | √ |
| 31.59 | 119.07 | SMC | 1037 | 15.5 | cropland | √ | √ | √ | √ | √ | √ |
| Li Y, et al., 2012 | 33.91 | 117.99 | TMC | 935 | 15.4 | cropland | √ | √ | √ | √ | √ | √ |
| Zhang F, et al., 2009 | 33.45 | 120.18 | TMC | 935 | 15.4 | cropland |  | √ | √ | √ | √ | √ |
| Yuan X, et al.,2006 | 32.58 | 119.70 | SMC | 950 | 15 | cropland | √ |  | √ | √ | √ | √ |
| Liu M, et al., 2009 | 31.66 | 120.75 | SMC | 1038 | 15.5 | cropland |  | √ | √ | √ | √ | √ |
| Hao R, et al., 2009 | 31.66 | 120.63 | SMC | 1038 | 15.5 | cropland |  | √ | √ | √ | √ | √ |
| 31.62 | 120.77 | SMC | 1038 | 15.5 | cropland |  | √ | √ | √ | √ | √ |
| Zhang Y, et al., 2001 | 31.09 | 120.78 | SMC | 1038 | 15.5 | cropland |  | √ | √ | √ | √ | √ |
| Ji J, et al., 2011 | 28.95 | 116.57 | SMC | 1600 | 17.5 | cropland |  | √ | √ | √ | √ | √ |
| Jia W. 2014 | 28.25 | 116.92 | SMC | 1794 | 17.6 | forest |  | √ | √ | √ | √ | √ |
| 28.25 | 116.92 | SMC | 1794 | 17.6 | forest |  | √ | √ | √ | √ | √ |
| Liu G.2015 | 29.56 | 116.00 | SMC | 1833.6 | 16.9 | forest | √ | √ | √ | √ | √ | √ |
| LU M, et al., 2011 | 28.25 | 116.92 | SMC | 1795 | 17.6 | cropland |  |  | √ | √ | √ | √ |
| Xiao X, et al., 2013 | 28.34 | 116.92 | SMC | 1600 | 17.6 | cropland |  | √ | √ | √ | √ | √ |
| Wang X, et al., 2010 | 29.08 | 116.29 | SMC | 1500 | 17.6 | wetland |  |  | √ | √ | √ | √ |
| 29.08 | 116.29 | SMC | 1500 | 17.6 | wetland |  |  | √ | √ | √ | √ |
| Xu Y, et al., 2010 | 41.53 | 122.38 | TMC | 700 | 7.5 | cropland |  | √ | √ | √ | √ | √ |
| Li S, et al., 2009 | 41.82 | 123.57 | TMC | 611 | 5.7 | cropland |  | √ | √ | √ | √ | √ |
| Yang K, et al., 2006 | 41.84 | 123.59 | TMC | 611 | 5.7 | forest |  | √ | √ | √ | √ | √ |
| Dai Y, et al., 2012 | 40.44 | 109.47 | TCC | 310 | 6.1 | grassland |  |  | √ | √ | √ | √ |
| Jiao Y, et al., 2014 | 41.88 | 115.26 | TCC | 400 | 1.6 | grassland | √ | √ | √ | √ | √ | √ |
| 41.88 | 115.26 | TCC | 400 | 1.6 | cropland | √ | √ | √ | √ | √ | √ |
| Wang J, et al., 2014 | 48.52 | 119.63 | TCC | 328.7 | -1.6 | grassland |  | √ | √ | √ | √ | √ |
| 48.52 | 119.63 | TCC | 328.7 | -1.6 | grassland |  | √ | √ | √ | √ | √ |
| Xu L, et al., 2011 | 43.73 | 118.12 | TCC | 370 | 2.1 | grassland |  |  | √ | √ | √ | √ |
| Guo X, et al., 2012 | 39.95 | 111.65 | TCC | 365 | 7.1 | cropland |  |  | √ | √ | √ | √ |
| Zhao S, et al., 2011 | 48.49 | 119.67 | TCC | 318 | -2.3 | grassland |  |  | √ | √ | √ | √ |
| 48.43 | 119.30 | TCC | 293 | -1.7 | grassland |  |  | √ | √ | √ | √ |
| 48.19 | 117.98 | TCC | 272 | -0.5 | grassland |  |  | √ | √ | √ | √ |
| Sun J, et al., 2010 | 39.95 | 111.65 | TCC | 410 | 7.1 | cropland |  |  | √ | √ | √ | √ |
| Liu B. 2010 | 38.69 | 105.82 | TCC | 145 | 9.24 | grassland | √ | √ | √ | √ | √ | √ |
| 38.75 | 105.90 | TCC | 280.4 | 4.93 | forest | √ | √ | √ | √ | √ | √ |
| Li X, & Qu Q. 2002 | 44.00 | 117.48 | TCC | 449 | -1.6 | grassland |  |  | √ | √ | √ | √ |
| 43.43 | 116.70 | TCC | 358.4 | -0.4 | grassland |  |  | √ | √ | √ | √ |
| 42.00 | 108.71 | TCC | 120 | 2.73 | grassland |  |  | √ | √ | √ | √ |
| Sun J, et al., 2009 | 39.95 | 111.65 | TCC | 410 | 7.1 | cropland |  |  | √ | √ | √ | √ |
| Qi S, et al., 2010 | 43.78 | 116.58 | TCC | 358.4 | -0.4 | grassland |  | √ | √ | √ | √ | √ |
| Cong H, et al.,2010 | 36.03 | 106.48 | TCC | 420 | 7 | grassland |  |  | √ | √ | √ | √ |
| Ma K, et al., 2010 | 35.91 | 106.10 | TCC | 400 | 6 | cropland |  | √ | √ | √ | √ | √ |
| Cheng Y, et al., 2010 | 36.03 | 106.48 | TCC | 420 | 7 | cropland |  |  | √ | √ | √ | √ |
| 38.78 | 105.90 | TCC | 340.5 | 2.26 | forest | √ | √ | √ | √ | √ | √ |
| 38.79 | 105.90 | TCC | 412.4 | -1.28 | grassland | √ | √ | √ | √ | √ | √ |
| Chen L, et al., 2006 | 37.44 | 106.12 | TCC | 220 | 10.5 | cropland |  |  | √ | √ | √ | √ |
| Cheng M, et al., 2010 | 36.03 | 106.48 | TCC | 420 | 7 | grassland |  |  | √ | √ | √ | √ |
| Ren Z, et al., 2011 | 35.88 | 99.95 | PMC | 517 | -0.9 | grassland |  | √ | √ | √ | √ | √ |
| 33.58 | 99.90 | PMC | 387 | 6 | grassland |  | √ | √ | √ | √ | √ |
| 34.07 | 95.82 | PMC | 387 | 6 | grassland |  | √ | √ | √ | √ | √ |
| 35.01 | 98.07 | PMC | 387 | 6 | grassland |  | √ | √ | √ | √ | √ |
| Zhu X, & Zhu B. 2015 | 31.27 | 105.47 | SMC | 826 | 17.13 | cropland | √ |  | √ | √ | √ | √ |
| Guo T, et al., 2011 | 30.36 | 105.48 | SMC | 945 | 17.3 | forest |  | √ | √ | √ | √ | √ |
| Yang Y, et al., 2012 | 31.31 | 102.95 | SMC | 850 | 3 | forest |  | √ | √ | √ | √ | √ |
| Hu Z, et al., 2012 | 30.88 | 102.97 | PMC | 861.8 | 8.4 | forest | √ | √ | √ | √ | √ | √ |
| 30.97 | 103.10 | SMC | 939 | 18.6 | forest | √ | √ | √ | √ | √ | √ |
| Liu L, et al., 2011 | 32.98 | 103.67 | SMC | 718 | 2.8 | grassland |  | √ | √ | √ | √ | √ |
| Zhong X, et al., 2011 | 31.53 | 103.21 | SMC | 500 | 11 | forest |  | √ | √ | √ | √ | √ |
| Liu X, et al., 2013 | 31.05 | 104.18 | SMC | 891 | 16.3 | cropland |  | √ | √ | √ | √ | √ |
| Wang W, et al., 2014 | 31.53 | 103.21 | SMC | 584 | 12 | forest |  | √ | √ | √ | √ | √ |
| Yi H, et al., 2010 | 31.53 | 103.22 | SMC | 2700 | 11 | forest |  | √ | √ | √ | √ | √ |
| Xiong H, et al., 2009 | 30.12 | 103.22 | SMC | 1519.9 | 15.5 | cropland | √ | √ | √ | √ | √ | √ |
| Qi Z, & Wang K, et al., 2009 | 32.98 | 104.03 | SMC | 859 | 1 | forest | √ | √ | √ | √ | √ | √ |
| Zhang X,et al., 2010 | 30.22 | 103.30 | SMC | 1520 | 15.5 | cropland | √ | √ | √ | √ | √ | √ |
| Li Y. 2011 | 31.28 | 121.53 | SMC | 1100 | 16 | forest | √ | √ | √ | √ | √ | √ |
| 31.28 | 121.53 | SMC | 1100 | 16 | forest | √ | √ | √ | √ | √ | √ |
| Gu B, et al., 2010 | 30.17 | 121.69 | SMC | 1200 | 16 | forest | √ |  | √ | √ | √ | √ |
| Zeng Q, et al., 2015 | 36.06 | 109.15 | TMC | 587.6 | 9.8 | forest | √ | √ | √ | √ | √ | √ |
| 36.06 | 109.15 | TMC | 587.6 | 8 | forest | √ | √ | √ | √ | √ | √ |
| 36.08 | 109.17 | TMC | 587.6 | 9.8 | forest | √ | √ | √ | √ | √ | √ |
| 36.08 | 109.17 | TMC | 587.6 | 9.8 | forest | √ | √ | √ | √ | √ | √ |
| Ma L, et al., 2015 | 34.30 | 108.01 | TMC | 575 | 13 | cropland |  | √ | √ | √ | √ | √ |
| Pu J, et al., 2015 | 38.33 | 109.71 | TMC | 400 | 10 | grassland |  |  | √ | √ | √ | √ |
| Liu J, et al., 2015 | 34.30 | 108.07 | TMC | 550 | 12.9 | cropland | √ | √ | √ | √ | √ | √ |
| Zang Y, et al., 2015 | 35.21 | 107.75 | TMC | 580.1 | 9.1 | cropland |  | √ | √ | √ | √ | √ |
| Zhao T, 2013 | 36.95 | 108.87 | TMC | 500 | 9 | forest | √ | √ | √ | √ | √ | √ |
| 37.19 | 109.00 | TMC | 500 | 9 | grassland | √ | √ | √ | √ | √ | √ |
| 36.45 | 109.52 | TMC | 500 | 9 | cropland | √ | √ | √ | √ | √ | √ |
| Wang F, et al., 2011 | 35.34 | 110.09 | TMC | 572 | 9.5 | cropland |  | √ | √ | √ | √ | √ |
| Jiang Y, et al., 2013 | 36.84 | 109.13 | TMC | 520 | 9.5 | grassland |  |  | √ | √ | √ | √ |
| 　 | 36.84 | 109.13 | TMC | 520 | 9.5 | grassland |  |  | √ | √ | √ | √ |
| Zhao T, et al., 2013 | 36.49 | 109.29 | TMC | 1356 | 9 | forest | √ |  | √ | √ | √ | √ |
| 37.19 | 109.00 | TMC | 1358 | 9 | grassland | √ |  | √ | √ | √ | √ |
| Xue S, et al., 2011 | 36.78 | 109.25 | TMC | 505 | 8.8 | cropland |  | √ | √ | √ | √ | √ |
| Wang W, et al., 2006 | 34.69 | 108.14 | TMC | 611 | 10 | cropland |  | √ | √ | √ | √ | √ |
| 34.24 | 108.07 | TMC | 632 | 12.9 | cropland |  | √ | √ | √ | √ | √ |
| 34.16 | 108.22 | TMC | 674 | 13.2 | cropland |  | √ | √ | √ | √ | √ |
| Jin F, et al., 2007 | 38.84 | 110.49 | TMC | 661 | 9.8 | cropland |  | √ | √ | √ | √ | √ |
| 38.28 | 109.73 | TMC | 487 | 13.9 | cropland |  | √ | √ | √ | √ | √ |
| 37.50 | 110.26 | TMC | 562 | 9.6 | cropland |  | √ | √ | √ | √ | √ |
| 37.09 | 110.12 | TMC | 562 | 9.6 | cropland |  | √ | √ | √ | √ | √ |
| 36.88 | 110.19 | TMC | 661 | 9.8 | cropland |  | √ | √ | √ | √ | √ |
| 36.87 | 109.32 | TMC | 562 | 9.6 | cropland |  | √ | √ | √ | √ | √ |
| 36.59 | 109.47 | TMC | 661 | 9.8 | cropland |  | √ | √ | √ | √ | √ |
| 35.99 | 109.37 | TMC | 572 | 9.5 | cropland |  | √ | √ | √ | √ | √ |
| 35.76 | 109.43 | TMC | 562 | 9.6 | cropland |  | √ | √ | √ | √ | √ |
| 35.40 | 109.11 | TMC | 661 | 9.8 | cropland |  | √ | √ | √ | √ | √ |
| 34.92 | 108.97 | TMC | 661 | 9.8 | cropland |  | √ | √ | √ | √ | √ |
| 34.62 | 108.93 | TMC | 562 | 9.6 | cropland |  | √ | √ | √ | √ | √ |
| Zhang X, et al., 2008 | 34.62 | 107.07 | TMC | 653 | 10.8 | forest | √ | √ | √ | √ | √ | √ |
| Hu C, et al., 2009 | 36.70 | 109.52 | TMC | 550 | 9 | forest | √ | √ | √ | √ | √ | √ |
| 36.70 | 109.52 | TMC | 550 | 9.8 | forest | √ | √ | √ | √ | √ | √ |
| 36.70 | 109.52 | TMC | 550 | 9.8 | forest | √ | √ | √ | √ | √ | √ |
| Liu Z, et al., 2009 | 33.75 | 107.75 | TMC | 900 | 13.8 | grassland |  | √ | √ | √ | √ | √ |
| Liang L, et al., 2010 | 35.54 | 112.86 | TMC | 500 | 12 | cropland |  | √ | √ | √ | √ | √ |
| Jia W, et al., 2008 | 37.97 | 113.11 | TMC | 500 | 7.3 | cropland |  | √ | √ | √ | √ | √ |
| Jia W, et al., 2008 | 37.88 | 113.17 | TMC | 500 | 7.3 | cropland |  |  | √ | √ | √ | √ |
| Du W, et al., 2011 | 39.08 | 117.57 | TMC | 566 | 12.6 | cropland |  | √ | √ | √ | √ | √ |
| 39.11 | 117.55 | TMC | 566 | 12.6 | cropland |  | √ | √ | √ | √ | √ |
| 38.97 | 117.55 | TMC | 566 | 12.6 | cropland |  | √ | √ | √ | √ | √ |
| 38.98 | 117.55 | TMC | 566 | 12.6 | cropland |  | √ | √ | √ | √ | √ |
| Zhang L, et al., 2015 | 40.64 | 80.38 | TCC | 80.8 | 10.6 | cropland |  | √ | √ | √ | √ | √ |
| 40.64 | 80.38 | TCC | 80.8 | 10.6 | cropland |  | √ | √ | √ | √ | √ |
| Liu Y, et al., 2010 | 44.31 | 86.06 | TCC | 185 | 9.2 | cropland |  | √ | √ | √ | √ | √ |
| Wang G, et al., 2009 | 45.03 | 86.04 | TCC | 115 | 6.5 | cropland |  | √ | √ | √ | √ | √ |
| 29.69 | 94.71 | PMC | 1134 | -0.73 | forest |  |  | √ | √ | √ | √ |
| Zong N, et al., 2013 | 30.85 | 91.08 | PMC | 447 | 1.3 | grassland |  |  | √ | √ | √ | √ |
| Cai X, et al., 2008 | 31.73 | 92.30 | PMC | 200 | 1.5 | grassland |  | √ | √ | √ | √ | √ |
| Duan Y, et al., 2012 | 24.36 | 102.54 | SMC | 600 | 16.2 | cropland |  | √ | √ | √ | √ | √ |
| He R, et al., 2015 | 24.97 | 99.03 | SMC | 1200 | 18.5 | cropland |  |  | √ | √ | √ | √ |
| Yang D, et al., 2015 | 30.41 | 119.94 | SMC | 1075 | 17.3 | cropland |  | √ | √ | √ | √ | √ |
| Xiao P, et al., 2012 | 30.23 | 119.70 | SMC | 1424 | 15.9 | forest |  | √ | √ | √ | √ | √ |
| Qin H, et al., 2010 | 30.36 | 119.76 | SMC | 1420 | 15.8 | forest |  | √ | √ | √ | √ | √ |
| 30.30 | 119.46 | SMC | 1420 | 15.8 | forest |  | √ | √ | √ | √ | √ |
| Bi B, et al.,2016 | 113.12 | 36.2 | TCC | 550-650 | 9.5 | forest |  |  |  | √ | √ | √ |
| Bi B, et al.,2016 | 113.12 | 36.2 | TCC | 550-650 | 9.5 | grassland |  |  |  | √ | √ | √ |
| Bi B, et al.,2016 | 113.12 | 36.2 | TCC | 550-650 | 9.5 | bare ground |  |  |  | √ | √ | √ |
| Yan R, et al.,2016 | 104.07 | 30.57 | SMC | 1012.4 | 16.3 | cropland |  |  | √ |  | √ |  |
| Hao Y X, et al.,2016 | 115.99 | 41.6 | TCC | 340-450 | 2.6 | cropland |  | √ | √ | √ | √ |  |
| Wang Y, et al.,2016 | 123.46 | 41.68 | TCC | 574-684 | 7-8.1 | cropland |  | √ | √ | √ | √ |  |
| Li J, et al.,2016 | 125.88 | 48.04 | TMC | 500 | 1.3 | cropland |  | √ | √ | √ | √ |  |
| Dai H C, et al.,2016 | 116.39 | 37.63 | TCC | 562 | 12.9 | cropland |  | √ | √ | √ | √ |  |
| Tian S Y, et al.,2016 | 122.54 | 52.97 | TMC | 460.8 | -4.9 | forest |  | √ | √ |  | √ |  |
| Zhao P Z, et al.,2016 | 125.88 | 48.04 | TMC | 501.7 | 0.9 | cropland |  |  | √ |  | √ |  |
| Wang F Q, et al.,2016 | 112.60 | 35.07 | TMC | 641.7 | 12.4-14.3 | forest |  |  | √ | √ | √ | √ |
| Nan L L, et al.,2016 | 103.83 | 36.06 | TCC | 150 | 7.2 | grassland |  | √ | √ | √ | √ | √ |
| Yao X M, et al.,2016 | 108.02 | 35.83 | TMC | 575 | 7.4 | cropland |  |  | √ |  | √ |  |
| Sun S H, et al.,2016 | 128.84 | 47.73 | TMC | 676 | -0.3 | forest |  | √ | √ | √ | √ |  |
| Li H Y, et al.,2016 | 124.12 | 50.41 | TMC | 428.6-526 | -2.6 | fore | √ | √ | √ | √ | √ | √ |
| Zhang Y, et al.,2016 | 116.32 | 39.99 | SMC | 800-1600 | 16-20 | cropland | √ | √ | √ |  | √ |  |
| Chen R G, et al.,2016 | 108.94 | 34.34 | TMC | 642.9 | 20.25-22.8 | cropland |  |  | √ |  | √ |  |
| Fei K, et al.,2016 | 102.54 | 32.79 | SMC | 791.95 | 1.1 | grassland |  |  | √ |  | √ |  |
| Liu L F, et al.,2016 | 102.54 | 32.79 | TMC | 640 | 9.1-11.4 | grassland |  |  | √ | √ | √ |  |
| Jia G, et al.,2016 | 111.29 | 30.69 | SMC | 1404.1 | 13.1-18 | forest |  |  | √ | √ | √ | √ |
| Shao X J, et al.,2016 | 119.22 | 30.16 | SMC | 1628 | 16.4 | forest |  |  | √ | √ | √ | √ |
| Yuan Y,et al.,2016 | 129.63 | 44.55 | TMC | 580 | 6.1 | cropland |  | √ | √ | √ | √ | √ |
| Shang J, et al.,2016 | 108.1 | 34.26 | TMC | 500-700 | 11-13 | cropland | √ |  | √ | √ | √ | √ |
| Cai T, et al.,2016 | 125.18 | 44.43 | TCC | 507.7 | 4.7 | cropland |  | √ | √ |  | √ |  |
| He F P, et al.,2016 | 117.2 | 42.59 | TMC | 400 | -1.4 | grassland |  | √ | √ | √ | √ | √ |
| Yuan Z Y, et al.,2016 | 114.03 | 27.63 | SMC | 1596.7 | 19.2 | grassland |  |  | √ |  | √ |  |
| Yao X Y, et al.,2016 | 104.65 | 28.76 | TMC | 896.2 | 21-23 | forest |  | √ | √ | √ | √ | √ |
| Jiang B W, et al.,2016 | 128.91 | 44.48 | TMC | 536.3 | 4.2 | cropland |  |  | √ | √ | √ | √ |
| Yang C, et al.,2016 | 117.13 | 36.2 | TMC | 728.3 | 13 | cropland |  | √ | √ | √ | √ |  |
| Chen Y Q, et al.,2016 | 116.39 | 37.63 | TMC | 562 | 12.9 | cropland |  |  | √ |  | √ |  |
| Shao Y F, et al.,2016 | 119.72 | 30.23 | SMC | 1613.9 | 13-22 | cropland |  |  | √ | √ | √ |  |
| Guo J M, et al.,2016 | 126.81 | 45.86 | TMC | 486.4-543.6 | 3.6 | cropland |  | √ | √ | √ | √ | √ |
| Gao X L, et al.,2016 | 104.59 | 35.61 | TMC | 398.4 | 3-15 | cropland | √ |  | √ | √ | √ |  |
| Tang J Y,et al.,2016 | 119.13 | 26.15 | SMC | 1673.9 | 18-26 | cropland |  | √ | √ | √ | √ | √ |
| Feng Z Z, et al.,2017 | 127.47 | 45.75 | TMC | 548.5 | 3.9 | cropland |  |  | √ | √ | √ | √ |
| Hu C, et al.,2017 | 114.96 | 36.77 | TMC | 542.7 | 13.2 | cropland |  | √ | √ | √ | √ |  |
| Dun S S, et al.,2017 | 116.64 | 43.72 | TMC | 337 | 0.4 | grassland |  | √ | √ | √ | √ | √ |
| Wen J, et al.,2017 | 113.02 | 34.75 | TMC | 619.5 | 15.9 | cropland |  | √ | √ |  | √ | √ |
| Zhao P Z, et al.,2017 | 125.88 | 48.04 | TMC | 501.7 | 0.9 | cropland |  | √ | √ | √ |  |  |
| Zhang L X, et al.,2017 | 111.11 | 39.79 | TMC | 420 | 6.2-8.7 | forest |  |  | √ | √ | √ | √ |
| Guo X W, et al.,2017 | 124.09 | 42.78 | TMC | 400-550 | 6.3 | forest |  |  | √ | √ |  | √ |
| Liu F L, et al.,2017 | 113.4 | 27.02 | SMC | 1410 | 17.8 | forest |  | √ | √ | √ | √ |  |
| Jin Q, et al.,2017 | 115.59 | 39.84 | SMC | 1450-1550 | 29.5 | forest | √ |  | √ |  | √ |  |
| Zhao H, et al.,2017 | 120.38 | 36.07 | TMC | 115-150 | 14.3 | cropland |  | √ | √ | √ | √ |  |
| Tao P C, et al.,2017 | 116.24 | 28.38 | SMC | 1587 | 17.5 | cropland | √ | √ | √ | √ | √ | √ |
| Dong M H, et al.,2017 | 112.94 | 28.23 | SMC | 1420 | 17.1 | forest | √ |  | √ | √ | √ | √ |
| Xu H T, et al.,2017 | 123.2 | 47.34 | TMC | 523.4 | 3.6 | cropland |  | √ | √ | √ | √ | √ |
| Wu D M, et al.,2018 | 117.64 | 26.26 | SMC | 1749 | 19.1 | forest |  | √ | √ | √ | √ |  |
| Zhan P F, et al.,2018 | 99.74 | 27.84 | TMC | 619.9 | 5.4 | grassland |  |  | √ |  | √ |  |
| Zheng X Z, et al.,2018 | 117.64 | 26.26 | SMC | 1749 | 19.1 | forest |  |  | √ | √ | √ |  |
| Zhang Y, et al.,2018 | 120.59 | 31.3 | SMC | 1139 | 16 | cropland |  | √ | √ | √ | √ |  |
| Xi D | 113.26 | 23.13 | SMC | 1700 | 21.5 | forest |  |  | √ |  | √ |  |
| Huang S D, et al.,2018 | 118.04 | 27.76 | SMC | 2461 | 12.8 | forest | √ | √ | √ | √ | √ |  |
| Ma X, et al.,2018 | 111.84 | 26.58 | SMC | 1250 | 18 | cropland |  |  | √ | √ | √ | √ |
| Wang Q, et al.,2018 | 108.78 | 33.85 | SMC | 600-900 | 11 | forest | √ | √ | √ | √ | √ |  |
| Zhang F, et al.,2018 | 113.26 | 23.13 | SMC | 1738 | 24 | cropland |  | √ | √ | √ | √ |  |
| Zhu K, et al.,2018 | 124.35 | 43.17 | TMC | 727.8 | 4.6 | forest |  | √ | √ | √ | √ |  |
| Guo B L, et al.,2018 | 113.08 | 43.17 | SMC | 1382.2 | 16.8-17.2 | cropland | √ | √ | √ | √ | √ | √ |
| Liu Y Q, et al.,2018 | 116.21 | 40 | TMC | 600 | 13.6 | forest |  | √ | √ | √ | √ |  |
| Nie S A, et al.,2018 | 119.13 | 26.14 | SMC | 1673.9 | 18-26 | cropland |  | √ | √ | √ | √ | √ |
| Zou Y L, et al.,2019 | 105.34 | 34.75 | TMC | 500 | 7-18 | forest |  | √ | √ | √ | √ | √ |
| Pan X C, et al.,2019 | 112.55 | 28.28 | SMC | 1354 | 17.2 | cropland |  | √ | √ | √ | √ | √ |
| Xi D, et al.,2019 | 113.26 | 23.13 | SMC | 2336 | 21.4 | forest |  |  | √ |  | √ |  |
| Li Y, et al.,2019 | 106.71 | 26.6 | SMC | 1100-1200 | 15.3 | cropland |  | √ | √ | √ | √ |  |
| Li S H, et al.,2019 | 100.8 | 22.01 | TMC | 1557 | 21.5 | forest | √ | √ | √ | √ | √ |  |
| Liu J Y, et al.,2019 | 113.08 | 28.25 | SMC | 1358.6-1552.5 | 16.8-17.2 | cropland |  | √ | √ | √ | √ |  |
| Chen Y, et al.,2019 | 113.12 | 36.2 | TMC | 1200-1500 | 8.6 | forest |  |  | √ | √ | √ | √ |
| Han L, et al.,2019 | 117.12 | 36.65 | TMC | 933.2 | 15.6 | forest | √ | √ | √ | √ | √ |  |
| Xie L et al., 2020 | 121.47 | 31.23 | SMC | 1022 | 15.3 | wetland |  |  |  | √ | √ | √ |
| Xu M et al., 2020 | 120.32 | 32.87 | TMC | 1050 | 14.6 | forest |  |  | √ | √ | √ |  |
|  | 120.32 | 32.87 | TMC | 1050 | 14.6 | cropland |  |  | √ | √ | √ |  |
|  | 120.32 | 32.87 | TMC | 1050 | 14.6 | cropland |  |  | √ | √ | √ |  |
| Wu Y et al., 2002 | 118.24 | 25.49 | SMC | 1850 | 17.55 | forest |  |  | √ | √ |  | √ |
| Wei S et al., 2020 | 118.24 | 25.49 | SMC | 1130 | 17.1 | forest | √ |  | √ | √ | √ | √ |
| Chi X et al., 2020 | 103.85 | 29.83 | SMC | 1509 | 16.1 | forest |  |  | √ |  | √ | √ |
| Huang J et al., 2020 | 119.98 | 30.27 | SMC | 1329.9 | 24.5 | cropland |  | √ | √ | √ | √ | √ |
| Zuo Q, et al., 2020 | 100.8 | 22.01 | TMC | 1557 | 21.5 | forest |  | √ | √ | √ | √ |  |
| Yao X, et al., 2020 | 100.8 | 22.01 | TMC | 409 | 8.4 | forest | √ |  | √ | √ | √ | √ |
| Bi Y, et al., 2020 | 110.47 | 38.9 | TMC | 441 | 8.9 | forest |  | √ | √ | √ | √ |  |
| Yu G, et al., 2020 | 108.12 | 28.26 | SMC | 1223 | 16.1 | cropland |  |  | √ |  | √ |  |
| Du C, et al., 2020 | 108.94 | 34.19 | TMC | 900 | 7.6 | forest |  | √ | √ | √ | √ |  |
| Zhou Q, et al., 2020 | 108.94 | 34.19 | TMC | 1400 | 21.5 | forest |  | √ | √ | √ | √ |  |
| Wang J, et al., 2021 | 110.17 | 36.05 | TMC | 571 | 10 | cropland |  | √ | √ | √ | √ |  |
| Luo L et al., 2021 | 104.07 | 30.57 | SMC | 895.6 | 16.5 | cropland | √ |  | √ |  | √ |  |
| Li Y et al., 2021 | 126.61 | 45.75 | TMC | 715 | / | forest | √ | √ | √ | √ | √ |  |  |
| Hu R et al., 2021 | 115.31 | 26.23 | SMC | 1528.8 | 19.5 | wetland  | √ | √ | √ | √ | √ |  |
|  | 115.31 | 26.23 | SMC | 1528.8 | 19.5 | cropland  | √ | √ | √ | √ | √ |  |
|  | 115.31 | 26.23 | SMC | 1528.8 | 19.5 | forest  | √ | √ | √ | √ | √ |  |
| Zhuang Z et al., 2021 | 103.7 | 36.09 | TCC | 650 | / | cropland |  |  | √ |  | √ | √ |
| Cheng H et al., 2021 | 112.3 | 29.2 | SMC | 1238 | 16.6 | cropland |  |  | √ |  | √ |  |
| Xia J et al., 2021 | 116.34 | 39.96 | SMC | 798 | 12.1 | forest |  | √ | √ |  | √ |  |
| Ji B et al., 2021 | 106.26 | 38.47 | TCC | 575 | / | grassland | √ | √ | √ |  | √ |  |
| Gu J et al., 2021 | 106.96 | 37.44 | TMC | 225 | 7.6 | grassland | √ | √ | √ |  | √ |  |
| Yu Y et al., 2021 | 116.11 | 26.41 | TMC | / | / | cropland |  | √ | √ |  | √ |  |
| Xi D et al., 2021 | 117.78 | 26.41 | SMC | 1628 | 19.6 | forest |  | √ | √ |  | √ |  |
| Shao P et al., 2021 | 115.59 | 39.84 | PMC | 700 | 2.9 | forest |  |  | √ |  | √ |  |
| Luo M et al., 2021 | 106.66 | 26.5 | SMC | / | / | cropland |  | √ | √ |  | √ | √ |
| Kong F et al., 2021 | 102.61 | 33.11 | TMC | 749.1 | 1.4 | grassland |  |  | √ |  | √ |  |
| Ma X et al., 2021 | 116.93 | 28.22 | SMC | 1795 | 17.6 | cropland |  | √ | √ |  | √ |  |
| Cai L et al., 2021 | 130.42 | 46.79 | TMC | / | / | cropland |  |  | √ |  | √ |  |
| Lan et all., 2021 | 115.94 | 28.56 | SMC | 1620 | 17.6 | cropland | √ | √ | √ | √ | √ | √ |
| Qiu G, et al., 2022 | 121.42 | 28.66 | SMC | 1537.1 | 17.5 | cropland |  | √ | √ | √ | √ |  |
| Zhang Y et al., 2022 | 104.59 | 35.61 | TMC | 400 | 6.9 | cropland |  | √ | √ | √ | √ |  |
| Chen X et al., 2022 | 110.61 | 19.97 | TMC | 1600 | 23.8 | forest |  | √ | √ | √ | √ |  |
| Zhang Y et al., 2022 | 124.92 | 42.1 | TMC | 775 | 4.65 | forest |  | √ | √ | √ | √ | √ |
| Shen Z et al., 2022 | 87.62 | 43.96 | TCC | 236 | 8.5 | grassland | √ | √ | √ |  | √ |  |
| Chen X et al., 2022 | 109.51 | 18.25 | TMC | 1799.4 | 23.9 | forest |  | √ | √ | √ | √ |  |
| Wang S, et al., 2022 | 123.46 | 41.68 | TCC | 700 | 9.2 | grassland |  | √ | √ | √ | √ | √ |