The dataset consists of crop biomass observed at four sample regions, including the soil moisture control experimental field at Daman, the EC plots, the super station, and Shiqiao sample plots at Wuxing village in Zhangye oasis. The data is stored in four excel files according to different observation sites. Additionally, another excel file called “Description of soil moisture control experimental field at Daman county.xls” tells the details about the soil moisture control experimental field at Daman county. The data files are presented below.

“Biomass-EC sample plot.xls”: There are sixteen observation sites in this area totally which are named after the number from one to sixteen with the prefix “EC”. Every site lists the same items about the observation, including observa+tion date, sample number, biomass data of leaf, stem and root and so on.

“Biomass-Shiqiao sample.xls”: The data stored in this file is similar to the file above. But this file presents the data obtained in Shiqiao.

“Biomass-Soil moisture control experimental field.xls”: The data stored in this file is similar to the file above. But this file presents the data obtained in the soil moisture control experimental field.

“Biomass-Superstation.xls”: The data stored in this file is similar to the file above. But this file presents the data obtained in the superstation.