A Big Earth Data Platform for Three Poles

**The experimental data of water consumption and water consumption pattern of desert plants (2012)**

1、Description

A small lysimeter was made by ourselves, which simulated the natural conditions and selected typical desert plants as the object to study the water consumption and its law. Repeat 3 times for each plant.
In 2011, the experiment of physiological water demand and water consumption of desert plants was carried out with the soil water content kept at (50 ± 10)% of the field water capacity; in 2012, the experiment of physiological water demand and water consumption was carried out with the soil water content kept at (20 ± 5)% of the field water capacity under stress.

2、Keywords

Theme：Water consumption,Vegetation,Desert plants
Discipline：Terrestrial Surface
Places：Heihe River Basin, Middle and Lower Reaches
Time：2012

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：0.02MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.1147222222222 | - |
| west：99.752777777 | - | east：101.28305555 |
| - | south：38.70694444 | - |

5、Time frame:2012-07-10 02:49:33+00:00--2013-07-10 02:49:33+00:00

6、Reference method

References to data:

SU Peixi. The experimental data of water consumption and water consumption pattern of desert plants (2012). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.216.2013.db2014

References to articles:

苏培玺, 周紫鹃, 张海娜, 李善家, 解婷婷. (2013). 荒漠植物沙拐枣群体光合作用及土壤呼吸研究. 北京林业大学学报, 35(3):56-64.

7、Supporting project information

Water use efficiency and related regulation mechanisms of desert vegetation in different scales

8、Data resource provider

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