The file ‘ISWS\_Urbana\_monthly\_weather\_1901thru2008.csv’ contains long-term monthly average weather for the Urbana station of the Illinois State water survey (<http://www.isws.illinois.edu/data/climatedb/choose.asp?stn=118740>). Columns contained in this spreadsheet are:

A: Year

B: Month

C: Precipitation (inches)

D: Mean (mean temperature, degrees Fahrenheit)

The file ‘Urbana\_weather\_1901thru2008.sas’ calculates average temperature and total precipitation for June-September for each year.

The file ‘2009thru2011soyFACEweatherdata.xlsx contains soyFACE weather data for 2009 through 2011, which are presented, together with the long-term record in Extended Data Figure 5. This file contains the columns:

A: Year: 2 values for precipitation for each year; one for control precipitation treatment, and one for reduced precipitation treatment (RP).

B: JJAS precipitation (mm)

C: JJAS mean temperature (°C)