year: year of the observation

fips: county fips code. See additional explanation [here](https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/home/?cid=nrcs143_013697)

fland: total agricultural land area

clay – salt: average soil characteristics

mean\_t01 – mean\_t12: average temperature from January to December

mean\_p01 – mean\_p12: average precipitation from January to December

rvalue\_lb\_acre: real land value per acre

x1 – x20: socio-economic controls

rtfsale: real agricultural product sales

rtotexp: real agricultural expenses

dry: =1 if the county practices dryland agriculture. =0 for irrigated agriculture.

prcp\_0410: precipitation between April and October

prcp\_7000\_0410: average precipitation between April and October, 1970-2000

prcp\_ugw: average future precipitation between April and October under the prediction of benchmark climate model

dd89: growing degree days in year t. Growing degree days is defined as the sum of daily degree days between April and October. Each day accumulates 0 degree days when temperature is below 8 Celsius, T-8 when temperature is between 8 and 32 Celsius, and 24 if temperature is above 32 Celsius.[[1]](#footnote-1)

dd89\_7000: average degree days between 1970 and 2000

dd89\_gw: average future degree days under the prediction of benchmark climate model

1. See "Water Availability, Degree Days, and the Potential Impact of Climate Change on Irrigated Agriculture in California." 2007. Climatic Change, 81(1): 19-38 (with W. Michael Hanemann and Anthony C. Fisher). [↑](#footnote-ref-1)