Readme file:

This is the readme and metadata for the data entitled “Quantifying the Land-Use Change Due to Soybean-Based Biodiesel in the United States” by Miao et al., that was published in the journal Applied Economic Perspectives & Policy ([https://onlinelibrary.wiley.com/doi/10.1002/aepp.70005](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fonlinelibrary.wiley.com%2Fdoi%2F10.1002%2Faepp.70005&data=05%7C02%7CClark.Christopher%40epa.gov%7C0f4ab90e587843b1d3ae08ddcecc1209%7C88b378b367484867acf976aacbeca6a7%7C0%7C0%7C638894098055812904%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW4zMiIsIkFOIjoiTWFpbCIsIldUIjoyfQ%3D%3D%7C0%7C%7C%7C&sdata=KbS8m9ckR7%2BGW2cZqPM6V7Pgv6f9AEnHm0v1NlJ1zY0%3D&reserved=0)). There is one file in the dataset:

1. soybean\_and\_total\_bd\_acres\_both\_re\_06252024.csv: This is the data file that shows the county FIPS code and the amount of soybean acreage increase and total cropland acreage increase from changes in soybean price and biodiesel production.

Metadata for #1 (soybean\_and\_total\_bd\_acres\_both\_re\_06252024.csv). Below describes the two tabs in the dataset and each column.

* Tab: Soybean acres
  + ctyfips: The county FIPS code.
  + soyb\_acres\_bd\_20\_11: the soybean acreage change due to biodiesel production over 2011-2020 (units: thousands of acres).
  + soyb\_acres\_price\_20\_11: the soybean acreage change due to soybean price change over 2011-2020 (units: thousands of acres).
* Tab: Total cropland
  + ctyfips: The county FIPS code.
  + total\_acres\_bd\_20\_11: the total cropland acreage change due to biodiesel production over 2011-2020 (units: thousands of acres).
  + total\_acres\_price\_20\_11: the total cropland acreage change due to soybean price change over 2011-2020 (units: thousands of acres).