

# Package ‘HiddenSafetynet2025’

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**Type** Package

**Title** US Farm Safety Net Lab

**Version** 0.0.0.9000

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**Reviewer** -

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**Description** This repository centralizes research outputs, analytical tools, and resources for exploring and evaluating the United States agricultural safety net programs. It supports analysis of key programs including the Federal Crop Insurance Program (FCIP), the Noninsured Crop Disaster Assistance Program (NAP), Price Loss Coverage (PLC), Agricultural Risk Coverage (ARC), and various ad-hoc disaster assistance programs.

**License** GPL-3 + file LICENSE

**URL** <https://github.com/you/HiddenSafetynet2025>

**BugReports** <https://github.com/you/HiddenSafetynet2025/issues>

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.2

**VignetteBuilder** knitr

**Depends** R (>= 4.1.0)

**Imports** data.table, rfcip, future.apply

**Remotes** github::dylan-turner25/rfcip, github::UrbanInstitute/urbnmapr, github::dylan-turner25/rfsa

**Suggests** dplyr, rvest, purrr, rfcip, knitr, rmarkdown, testthat (>= 3.0.0)

**LazyData** true

**Cite-us** If you find it useful, please consider starring the repository and citing the following studies

- Tsiboe, F. and Turner, D. (2025). ``Incorporating buy-up price loss coverage into the United States farm safety net." Applied Economic Perspectives and Policy.
- Tsiboe, F., et al. (2025). ``Risk reduction impacts of crop insurance in the United States." Applied Economic Perspectives and Policy.
- Gaku, S. and Tsiboe, F. (2024). Evaluation of alternative farm safety net program combination strategies. Agricultural Finance Review.

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setup_environment	<i>Setup Project Environment</i>
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Description

Loads required libraries, initializes directories, R options, random seed, and analysis year range for the supplemental protection project.

Usage

```
setup_environment(year_beg = 2015, year_end = 2024, seed = 1980632)
```

Arguments

year_beg	Integer. Beginning year of the analysis (default: 2015).
year_end	Integer. Ending year of the analysis (default: 2024).
seed	Integer. Random seed for reproducibility (default: 1980632).

Details

This function:

- Loads the following packages: - future.apply - rfcip-data.table - rfcipCalcPass
- Detects the operating system and sets the root fastscratch directory: - Windows - "C:/fastscratch/" - Linux/Mac - "/fastscratch/<username>"
- Creates subdirectories for simulation, expected values, draw-farm, and draw-cost outputs.
- Ensures data/ and output/ directories exist in the project root.
- Sets R options: - scipen = 999 - disables scientific notation - future.globals.maxSize - increases memory for the future package - dplyr.summarise.inform = FALSE - suppresses summarise messages
- Sets a random seed for reproducibility.

Value

A named list containing:

- wd** List of working directory paths (fastscratch + subfolders).
- year\_beg** The starting year.
- year\_end** The ending year.

Examples

```
env <- setup_environment(year_beg = 2015, year_end = 2024, seed = 42)
env$wd$dir_sim
env$year_beg
```

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