

Package: STATEROOM (via r-universe)

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Type Package

Title SpaTiAl resulTs gEneRatOr fOr iMPact (STATEROOM)

Version 1.2.0

Description Spatial results generator for IMPACT.

License GPL (>= 3)

Encoding UTF-8

RoxygenNote 7.2.3

Imports DOORMAT (>= 3.7.4), ggplot2 (>= 3.4.2), sf (>= 1.0.12),
viridis (>= 0.6.3), ggthemes (>= 4.2.4), magclass (>= 6.9.0),
utils, stats

Remotes github::eddelbuettel/drat

Additional_repositories <https://ifpri.github.io/drat>

Repository <https://ifpri.r-universe.dev>

RemoteUrl <https://github.com/IFPRI/STATEROOM>

RemoteRef HEAD

RemoteSha b484789974d33f0a61e4aec458111e31fc215ea0

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calcCropAreaFPU *FPU Level Crop area*

Description

FPU Level Crop area

Usage

```
calcCropAreaFPU(gdx, yrs = NULL, crop = NULL)
```

Arguments

gdx	final GDX from an IMPACT run
yrs	Years to subset. Defaults to NULL for all years.
crop	Crops to subset. Defaults to NULL for all crops.

Value

FPU level area_fpu as sf object

Author(s)

Abhijeet Mishra

Examples

```
## Not run: x <- calcCropAreaFPU(gdx)
```

calcProductionFPU *FPU Level Production*

Description

FPU Level Production

Usage

```
calcProductionFPU(gdx, yrs = NULL, crop = NULL)
```

Arguments

gdx	final GDX from an IMPACT run
yrs	Years to subset. Defaults to NULL for all years.
crop	Crops to subset. Defaults to NULL for all crops.

Value

FPU level production as sf object

Author(s)

Abhijeet Mishra

Examples

```
## Not run: x <- calcProductionFPU(gdx)
```

calcYieldFPU	<i>FPU Level Production</i>
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Description

FPU Level Production

Usage

```
calcYieldFPU(gdx, yrs = NULL, crop = NULL)
```

Arguments

gdx	final GDx from an IMPACT run
yrs	Years to subset. Defaults to NULL for all years.
crop	Crops to subset. Defaults to NULL for all crops.

Value

FPU level production as sf object

Author(s)

Abhijeet Mishra

Examples

```
## Not run: x <- calcYieldFPU(gdx)
```

`plotSpatial`*Plotter for IMPACT results at FPU level*

Description

Plotter for IMPACT results at FPU level

Usage

```
plotSpatial(  
  df,  
  wrap = NULL,  
  ncol = NULL,  
  scale = 1,  
  plot_title = NULL,  
  legend_title = NULL  
)
```

Arguments

<code>df</code>	sf dataframe object. Usually an output from from readFPU()
<code>wrap</code>	If the plot needs to be wrapped e.g., in case plotting multiple indicators. For example, use "fctr" if you want to plot irrigated and rainfed areas in case area is being plotted
<code>ncol</code>	Number of columns to be plotted. Defaults to NULL.
<code>scale</code>	Numeric value to scale output. Use 1e3 for thousand to million conversion for example. Defaults to 1.
<code>plot_title</code>	Title of the plot. Defaults to NULL.
<code>legend_title</code>	Title of the legend, Defaults to NULL.

Value

ggplot object with FPU level IMPACT results

Examples

```
## Not run:  
plotSpatial(df)  
  
## End(Not run)
```

readFPU	<i>Read FPU level data and merge with FPU shapefile</i>
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Description

Read FPU level data and merge with FPU shapefile

Usage

```
readFPU(gdx, param_name, data = NULL, yrs = NULL, crop = NULL)
```

Arguments

gdx	GDX from IMPACT run
param_name	Name of paramter with FPU column in IMPACT model
data	If FPU level data is already available. If used, do not provide 'gdx' and 'param_name' information. Defaults to NULL.
yrs	Years to subset. HIGHLY recommended to use this for performance reasons as the data frame might be too big to read all years information.
crop	Crops to subset if available. HIGHLY recommended to use this for performance reasons as the data frame might be too big to read all crops information - specially if they have additional "fctr" information associated with them like rainfed or irrigated areas.

Value

Spatial Vector which contains FPU level data from IMPACT

Examples

```
## Not run:
readArea(gdx)

## End(Not run)
```

readSHP	<i>Shapefile reader for IMPACT FPUs</i>
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Description

Shapefile reader for IMPACT FPUs

Usage

```
readSHP()
```

Value

Terra object with shapefile constaining FPU's for IMPACT

Examples

```
## Not run:  
readSHP()
```

```
## End(Not run)
```

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