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Description This package provides functions for MAgPIE input data on factor inputs to agricultural production (with a focus on capital and labor).

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mrfactors-package *MADRaT based package on factor inputs*

Description

This package provides functions for MAgPIE input data on factor inputs to agricultural production (with a focus on capital and labor).

Author(s)

Maintainer: Debbora Leip <leip@pik-potsdam.de>

See Also

Useful links:

- <https://github.com/pik-piam/mrfactors>

calcAgCapLabourShare *calcAgCapLabourShare*

Description

This function calculates historical capital shares (Capital + Labour) of the factor requirements using USDA

Usage

```
calcAgCapLabourShare()
```

Value

MAGPIE object

Author(s)

Edna J. Molina Bacca

See Also

[calcAgCapLabourShare()]

Examples

```
## Not run:  
calcOutput("calcAgCapLabourShare")  
  
## End(Not run)
```

calcAgEmplILO *calcAgEmplILO*

Description

calculates complete dataset of number of people employed in agriculture, forestry and fishery based on ILO modelles dataset and GDPpcPPP05 for regression

Usage

```
calcAgEmplILO(  
  subsectors = TRUE,  
  inclFish = FALSE,  
  inclForest = FALSE,  
  dataVersionILO = "Aug23"  
)
```

Arguments

subsectors	boolean: should overall values be split into the sub-sectors agriculture, forestry and fishery based on their relative share of people employed, and agriculture further split into crops and livestock based on VoP
inclFish	boolean: should employment in fisheries be included?
inclForest	boolean: should employment in forestry be included?
dataVersionILO	which version of the ILO input data to use. "" for the oldest version and old regression, or "monthYear" (e.g. "Aug23") for newer data

Value

List of magpie objects with results on country level, weight on country level, unit and description.

Author(s)

Debbora Leip

Examples

```
## Not run:
calcOutput("AgEmplILO")

## End(Not run)
```

calcFacReq

calcFacReq

Description

This function calculates factor requirement costs (05USDMER/tDM) on regional level, based FAO databases

Usage

```
calcFacReq(splitSectors = FALSE)
```

Arguments

splitSectors if TRUE requirements for labor and capital will be reported separately

Value

MAGPIE object

Author(s)

Debbora Leip

See Also

[calcOutput()],[calcFactorIntensity()]

Examples

```
## Not run:  
calcOutput("calcFacReq")  
  
## End(Not run)
```

calcFacReqGLO

calcFacReqGLO

Description

This function calculates 2005 global factor requirement costs (05USDMER/tDM) using FAO databases

Usage

```
calcFacReqGLO()
```

Value

MAgPIE object

Author(s)

Edna J. Molina Bacca

See Also

[calcOutput()],[calcFactorIntensity()]

Examples

```
## Not run:  
calcOutput("calcFacReqGLO")  
  
## End(Not run)
```

calcFactorCostsCrops *calcFactorCostsCrops*

Description

calculates factor costs for crop production in mio. US\$MER05

Usage

```
calcFactorCostsCrops(datasource = "USDA")
```

Arguments

datasource only source available is "USDA" (calculates factor costs by applying factor cost share from USDA to VoP from FAO)

Value

List of magpie objects with results on country level, weight on country level, unit and description.

Author(s)

Debbora Leip

Examples

```
## Not run:
calcOutput("FactorCostsCrops")

## End(Not run)
```

calcFactorCostsLivst *calcFactorCostsLivst*

Description

calculates factor costs for livestock production in mio. US\$MER05

Usage

```
calcFactorCostsLivst(datasource = "USDA", otherLivst = FALSE)
```

Arguments

datasource only source available is "USDA" (calculates factor costs by applying factor cost share from USDA to VoP from FAO)

otherLivst boolean: should FAO livestock categories that can't be matched to MAgPIE categories (i.e. beeswax, wool, silkworms, and honey) be reported as "livst_other"?

Value

List of magpie objects with results on country level, weight on country level, unit and description.

Author(s)

Debbora Leip

Examples

```
## Not run:  
calcOutput("FactorCostsLivst")  
  
## End(Not run)
```

calcFactorIntensity *calcFactorIntensity*

Description

Calculates factor intensity for labour and/or capital from USDA (Inputs share) and FAO (Value of Production) in 05USDppp per ton. Capital intensity and requirements can also be calculated from FAO's CapitalStock database.

Usage

```
calcFactorIntensity(output = "intensities", method = "USDA")
```

Arguments

output	needed outputs. It can be either "intensities" (Capital/Labour factor intensities), "requirements" (Capital Stock requirements per ton), and "CapitalShare" for "USDA" method. For the "CapitalStock" method only "intensities" and "requirements" outputs supported.
method	"USDA" or "CapitalStock"

Value

magpie object of the factor requirements intensity or factor intensity in 05USDppp/tDM per crop, or capital share fraction.

Author(s)

Edna J. Molina Bacca

See Also

[calcOutput()]

Examples

```
## Not run:  
a <- calcOutput("FactorIntensity")  
  
## End(Not run)
```

```
calcFractionInputsUSDA  
    calcFractionInputsUSDA
```

Description

Calculates the factor factor shares for crop production from USDA'S Inputs shares.

Usage

```
calcFractionInputsUSDA(products = "kcr")
```

Arguments

products either "kcr" for crops, or "kli" for livestock

Value

magpie object of the shares of the factor requirements in agriculture (capital, labor, materials, land).

Author(s)

Edna J. Molina Bacca, Debbora Leip

See Also

[calcOutput()]

Examples

```
## Not run:  
a <- calcOutput("FractionInputsUSDA")  
  
## End(Not run)
```

calcHourlyLaborCosts *calcHourlyLaborCosts*

Description

calculates dataset of hourly labor costs per employee in agriculture

Usage

```
calcHourlyLaborCosts(
  datasource = "USDA_FAO",
  dataVersionILO = "Aug23",
  sector = "agriculture",
  fillWithRegression = TRUE,
  calibYear = 2010,
  cutAfterCalibYear = TRUE,
  projection = FALSE
)
```

Arguments

datasource	either raw data from "ILO" (agriculture+forestry+fishery) or data calculated based on total labor costs from "USDA_FAO" (crop+livestock production).
dataVersionILO	Which version of ILO data to use (for hourly labor costs if source is ILO, for ag empl. if source is USDA_FAO). "" for the oldest version, or "monthYear" (e.g. "Aug23") for a newer version)
sector	should average hourly labor costs be reported ("agriculture"), or hourly labor costs specific to either "crops" or "livestock" production. For ILO only the aggregate hourly labor costs are available.
fillWithRegression	boolean: should missing values be filled based on a regression between ILO hourly labor costs and GDPpMER (calibrated to countries)
calibYear	in case of fillWithRegression being TRUE, data after this year will be ignored and calculated using the regression (calibrated for each year to calibYear, or the most recent year with data before calibYear). NULL if all data should be used for calibration
cutAfterCalibYear	boolean, only relevant if fillWithRegression is TRUE. If cutAfterCalibYear is TRUE, raw data after the calib year is overwritten by regression results (necessary for consistency with calculation within MAgPIE). If FALSE, raw data is kept and only gaps are filled with regression
projection	either FALSE or SSP on which projections should be based. Only relevant if fillWithRegression is TRUE.

Value

List of magpie objects with results on country level, weight on country level, unit and description.

Author(s)

Debbora Leip

Examples

```
## Not run:  
calcOutput("HourlyLaborCosts")  
  
## End(Not run)
```

calcIFPRIsubsidy *calcIFPRIsubsidy*

Description

Adds non-allocated subsidies to crop subsidies (as most subsidies are linked to land area), and excludes NRP subsidies (as those are border measures, which are already reflected in ag. prices)

Usage

```
calcIFPRIsubsidy(fillGaps = TRUE)
```

Arguments

fillGaps boolean, should gaps in the dataset be filled using interpolation?

Value

magpie object. in mio. USDMER05

Author(s)

Debbora Leip

See Also

[calcOutput()]

Examples

```
## Not run:  
a <- calcOutput("IFPRIsubsidy")  
  
## End(Not run)
```

calcLaborCosts	<i>calcLaborCosts</i>
----------------	-----------------------

Description

calculates total labor costs in mio. US\$MER05 (coverage depends on source: crop, livestock and fish production for USDA, and additionally forestry for GTAP and ILO)

Usage

```
calcLaborCosts(
  datasource = "ILO",
  dataVersionILO = "Aug23",
  subsectors = TRUE,
  inclFish = FALSE,
  inclForest = FALSE,
  otherLivst = TRUE,
  gtapVar = "NVFA",
  addSubsidies = FALSE
)
```

Arguments

<code>datasource</code>	data source on which the labor costs should be based. Available are ILO, USDA (which also uses data on VoP from FAO), and GTAP.
<code>dataVersionILO</code>	If source is ILO, the version can be chosen. "" for the oldest version, or "monthYear" (e.g. "Aug23") for a newer version)
<code>subsectors</code>	boolean: should output be aggregated or split into available subsectors (crops, livst, forestry, fishery)
<code>inclFish</code>	boolean: should fish labor costs be included?
<code>inclForest</code>	boolean: should forestry labor costs be included (only available for ILO and GTAP)?
<code>otherLivst</code>	boolean: should other_livst category (i.e. beeswax, wool, silkworms, and honey) be included in livestock (only relevant for datasource USDA)?
<code>gtapVar</code>	variable name to use from GTAP (only relevant if source is "GTAP")
<code>addSubsidies</code>	boolean: should subsidy data (from IFPRI) should be added to VoP before applying USDA cost shares (only relevant if datasource is "USDA")

Value

List of magpie objects with results on country level, weight on country level, unit and description.

Author(s)

Debbora Leip

Examples

```
## Not run:
calcOutput("LaborCosts", datasource = "ILO")

## End(Not run)
```

```
calcNonMAgPIEFactorCosts
      calcNonMAgPIEFactorCosts
```

Description

Calculates factor costs that should affect agricultural employment but are not included in MAgPIE factor costs

Usage

```
calcNonMAgPIEFactorCosts(
  subtype = "subsidies",
  aggSubsidies = FALSE,
  extrapolate = TRUE
)
```

Arguments

subtype	either factor cost share of "subsidies" (which don't enter MAgPIE labor costs as they should not affect prices), or of "missingVoP" (which refers to livestock VoP that can't be mapped to MAgPIE livestock categories, i.e. wool, beeswax, honey, silk-worms)
aggSubsidies	boolean: if subtype is "subsidies", should crop and livestock subsidies be reported separately or as aggregate?
extrapolate	boolean: should values be extrapolate (by keeping constant) until 2150?

Value

magpie object. in mio. USDMER05

Author(s)

Debbora Leip

See Also

[calcOutput()]

Examples

```
## Not run:
a <- calcOutput("NonMagPIEFactorCosts", subtype = "subsidies")

## End(Not run)
```

calcPricesProducer *calcPricesProducer*

Description

producer prices for agricultural products. 05USDMER/tDM prices from FAO, no currency conversion

Usage

```
calcPricesProducer(
  products = "kcr",
  calculation = "VoP",
  weighting = "production"
)
```

Arguments

products	either "kcr" or "kcl"
calculation	type of calculation "FAO" (directly reads the data), "VoP" calculates as VoP/Production, only "FAO" available for "kli" products.
weighting	either "production" (default) or "consumption" based weighting

Value

magpie object. prices in year specific annual

Author(s)

Edna J. Molina Bacca

See Also

[calcOutput()]

Examples

```
## Not run:
a <- calcOutput("PricesProducer")

## End(Not run)
```

calcProductionCosts *calcProductionCosts*

Description

calculates agricultural production costs (split into different cost categories)

Usage

```
calcProductionCosts(datasource = "Vittis")
```

Arguments

datasource Datasource of production costs, currently only "Vittis"

Value

List of magpie objects with results on country level, weight on country level, unit and description.

Author(s)

Debbora Leip

Examples

```
## Not run:
calcOutput("ProductionCosts", source = "Vittis")

## End(Not run)
```

calcRegFactorShare *calcRegFactorShare*

Description

This function calculates the regression parameters (a and b) for the function $Share = a * \log_{10}(GDP) + b$
Where share is the adjusted share between capital and labour.

Usage

```
calcRegFactorShare(datasource = "USDA", factor = "cap")
```

Arguments

datasource Only USDA available
factor "lab" for Labour and "cap" for capital

Value

MAGPIE object at global level with slope and intersect as items

Author(s)

Debbora Leip, Edna J. Molina Bacca

See Also

[calcOutput()],[calcFactorIntensity()]

Examples

```
## Not run:
calcOutput("calcRegFactorShare")

## End(Not run)
```

calcRegressionsILO *regressionsILO*

Description

Calculates regression coefficients used by calc functions for ILO data sets

Usage

```
calcRegressionsILO(
  subtype = "AgEmplShare",
  dataVersionILO = "Aug23",
  thresholdWage = 0.1,
  forceWageIntercept = TRUE,
  wageRegrType = NULL,
  recalculate = FALSE
)
```

Arguments

subtype	specifies the regression type: "AgEmplShare" for a regression between the square root of the share of people employed in agriculture (out of total population) and the log (base 10) of GDP pc PPP05. "HourlyLaborCosts" for a regression between mean nominal hourly labor cost per employee in agriculture and GDP pc MER05.
dataVersionILO	which version of the ILO input data and regression to use. "" for the oldest version and old regression, or "monthYear" (e.g. "Aug23") for newer data with the new regression type

thresholdWage	only relevant for linear hourly labor cost regression: for low GDP pc MER, the regression between hourly labor costs and GDP pc MER can lead to unreasonably low or even negative hourly labor costs. Therefore, we set all hourly labor costs below this threshold to the threshold.
forceWageIntercept	only relevant for linear hourly labor cost regression: If TRUE, the wage threshold is also used as intercept of the regression. If FALSE, the intercept is determined by the regression
wageRegrType	Only relevant for HourlyLaborCosts regression. If NULL, a linear regression will be used for the oldest data (dataVersionILO: ""), and a loglog regression for all newer data. Can be overwritten by specifically setting wageRegrType to "linear" or "loglog".
recalculate	whether regression should be read from source folder, or recalculated from scratch. Recalculation can lead to new regression coefficients if data changed, and result should always be checked.

Author(s)

Debbora Leip

Examples

```
## Not run:
  a <- calcOutput("RegressionsILO", subtype = "HourlyLaborCosts")

## End(Not run)
```

calcVoPAFF

calcVoPAFF

Description

Calculates the overall value of production of the agriculture, forestry and fisheries sectors. Forestry and Fisheries are calculated from exports values.

Usage

```
calcVoPAFF()
```

Value

magpie object. in mio. 05USD MER units

Author(s)

Edna J. Molina Bacca, Debbora Leip

See Also

[calcOutput()]

Examples

```
## Not run:  
a <- calcOutput("VoPAFF")  
  
## End(Not run)
```

calcVoPcrops

calcVoPcrops

Description

Calculates the value of production of individual production items or its fraction compared to overall Value of Production (Agriculture,Fish,Forestry).

Usage

```
calcVoPcrops(fillGaps = TRUE)
```

Arguments

fillGaps boolean: should gaps be filled using production * prices (where production data is available)?

Value

magpie object. in mio. USD05 MER or fraction

Author(s)

Edna J. Molina Bacca, Debbora Leip

See Also

[calcOutput()]

Examples

```
## Not run:  
a <- calcOutput("VoPcrops")  
  
## End(Not run)
```

`calcVoPlivst`*calcVoPlivst*

Description

Calculates the value of production of individual livestock categories

Usage

```
calcVoPlivst(other = FALSE, fillGaps = TRUE)
```

Arguments

<code>other</code>	boolean: should FAO livestock categories that can't be matched to MAgPIE categories (i.e. beeswax, wool, silkworms, and honey) be reported as "livst_other"?
<code>fillGaps</code>	boolean: should gaps be filled using production * prices (where production data is available)?

Value

magpie object. in mio. USDMER05

Author(s)

Debbora Leip

See Also

[`calcOutput()`]

Examples

```
## Not run:  
a <- calcOutput("VoPlivst")  
  
## End(Not run)
```

calcWeeklyHoursILO *calcWeeklyHoursILO*

Description

calculates complete dataset of mean weekly hours worked by people employed in agriculture, forestry and fishery based on ILO dataset

Usage

```
calcWeeklyHoursILO(projections = FALSE, dataVersionILO = "Aug23")
```

Arguments

projections boolean, should weekly hours be projected (by keeping constant) up to 2150?
 dataVersionILO which version of the ILO input data to use. "" for the oldest version and old regression, or "monthYear" (e.g. "Aug23") for newer data

Value

List of magpie objects with results on country level, weight on country level, unit and description.

Author(s)

Debbora Leip

Examples

```
## Not run:
calcOutput("WeeklyHoursILO")

## End(Not run)
```

convertIFPRIsubsidy *convertIFPRIsubsidy*

Description

disaggregates EU subsidies for crops and livestock from IFPRI table to country level

Usage

```
convertIFPRIsubsidy(x)
```

Arguments

x magpie object provided by the read function

Value

magpie object of agricultural subsidies

Author(s)

Debbora Leip

Examples

```
## Not run:  
a <- readSource("IFPRIsubsidy", convert = TRUE)  
  
## End(Not run)
```

convertILOSTAT

convertILOSTAT

Description

transforms currencies where applicable, and fills missing countries in ILOSTAT data with 0

Usage

```
convertILOSTAT(x)
```

Arguments

x unconverted magpie object from read-script

Value

Data as MAgPIE object with common country list

Author(s)

Debbora Leip

Examples

```
## Not run:  
a <- readSource("ILOSTAT", subtype = "EmplByActivityModelled", convert = TRUE)  
  
## End(Not run)
```

convertVittis	<i>convertVittis</i>
---------------	----------------------

Description

Aggregate production costs from Vittis dataset to MAgPIE crop categories and change unit from US\$2000 to US\$2005.

Usage

```
convertVittis(x)
```

Arguments

x MAgPIE object to be converted

Value

A MAgPIE object containing national-scale costs of production for 10 crops, disaggregated in 9 distinct cost elements

Author(s)

Debbora Leip

correctVittis	<i>correctVittis</i>
---------------	----------------------

Description

Correct inconsistencies in crop naming in the Vittis dataset

Usage

```
correctVittis(x)
```

Arguments

x magpie object provided by the read function

Value

corrected magpie object on national-scale costs of production for 10 crops, disaggregated in 9 distinct cost elements

Author(s)

Debbora Leip

See Also

[readVittis()]

downloadILOSTAT *downloadILOSTAT*

Description

Download data from ILOSTAT

Usage

```
downloadILOSTAT(subtype)
```

Arguments

subtype	Type of ILOSTAT data that should be downloaded, version specified by suffix "_MonthYear" (month and year of download)
---------	---

Value

metadata entry

Author(s)

Debbora Leip

Examples

```
## Not run:  
  downloadSource("ILOSTAT", "EmplByActivityModelled")  
  
## End(Not run)
```

downloadTFPUSDA *downloadTFPUSDA*

Description

Downloads data of input shares based on a TFP assessment from USDA.

Usage

```
downloadTFPUSDA()
```

Value

raw TFP file from USDA

Author(s)

Edna J. Molina Bacca

See Also

[downloadSource()]

readHourlyLaborCostsChina
readHourlyLaborCostsChina

Description

Read in data on hourly labor costs in agriculture for China.

Usage

```
readHourlyLaborCostsChina()
```

Value

data as MAgPIE object

Author(s)

Debbora Leip

Examples

```
## Not run:  
readSource("HourlyLaborCostsChina")  
  
## End(Not run)
```

readIFPRIsubsidy	<i>readIFPRIsubsidy</i>
------------------	-------------------------

Description

read subsidies for crops and livestock (and non-allocated) from IFPRI table

Usage

```
readIFPRIsubsidy()
```

Value

magpie object of agricultural subsidies

Author(s)

Debbora Leip

Examples

```
## Not run:
  readSource("IFPRIsubsidy")

## End(Not run)
```

readILOSTAT	<i>readILOSTAT</i>
-------------	--------------------

Description

Read in ILOSTAT data that has been downloaded from the ILOSTAT website

Usage

```
readILOSTAT(subtype)
```

Arguments

subtype	Type of ILOSTAT data that should be downloaded, version specified by suffix "_MonthYear" (month and year of download) <ul style="list-style-type: none"> • 'EmplByActivityModelled': "Employment by sex and economic activity – ILO modelled estimates, Nov. 2020 (thousands)" • 'WeeklyHoursByActivity': "Mean weekly hours actually worked per employed person by sex and economic activity"
---------	--

- ‘HourlyLaborCostsByActivity’: "Mean nominal hourly labour cost per employee by economic activity"
- ‘EmplByISIC2’: "Employment by sex and economic activity - ISIC level 2 (thousands) | Annual"
- ‘EmplByActivityMonthly’: "Employment by sex and economic activity (thousands) | Monthly"
- ‘EmplByActivityMonthlyAdj’: "Employment by sex and economic activity, seasonally adjusted series (thousands) | Monthly"
- ‘EmplByActivityAndStatus’: "Employment by sex, status in employment and economic activity (thousands) | Annual"
- ‘WeeklyHoursByActivityMonthly’: "Mean weekly hours actually worked per employee by sex and economic activity | Monthly"
- ‘WeeklyHoursByISIC2’: "Mean weekly hours actually worked per employed person by sex and economic activity - ISIC level 2 | Annual"
- ‘WeeklyHoursEmployeesByISIC2’: "Mean weekly hours actually worked per employee by sex and economic activity - ISIC level 2 | Annual"
- ‘LaborIncomeShareGDPModelled’: "Labour income share as a percent of GDP – ILO modelled estimates, July 2019 (
- ‘OutputPerWorkerModelled’: "Output per worker (GDP constant 2010 US \$) – ILO modelled estimates, Nov. 2020 | Annual"

Value

ILOSTAT data as MAgPIE object

Author(s)

Debbora Leip

Examples

```
## Not run:
readSource("ILOSTAT", "EmplByActivityModelled")

## End(Not run)
```

readRegressionsILO *readRegressionsILO*

Description

Read regression coefficients which are used to fill missing values of ILO datasets

Usage

```
readRegressionsILO(subtype = "AgEmplShare")
```

Arguments

subtype Type of ILOSTAT data for which regression coefficients should be read

- ‘AgEmplShare’: regression coefficients for $\text{sqr}(\text{ag empl share}) \sim \log(\text{GDP pc PPP})$
- ‘HourlyLaborCosts’: regression coefficients for hourly labor costs $\sim \text{GDP pc MER (old version)}$ or $\log(\text{hourly labor costs}) \sim \log(\text{GDP pc MER})$ (new version)

The version of regression and underlying data can be chosen by adding a suffix to the subtype, "" for the oldest version, or "_monthYear" (e.g. "_Aug23") for newer version

Value

regression coefficients as MAgPIE object

Author(s)

Debbora Leip

Examples

```
## Not run:
  readSource("RegressionsILO", "AgEmpl")

## End(Not run)
```

readTFPUSDA

readTFPUSDA

Description

Reads the input shares from USDA's Agricultural total factor productivity growth indices assessment.

Usage

```
readTFPUSDA()
```

Value

magpie object with fractions of different input factors in the overall production value

Author(s)

Edna J. Molina Bacca

See Also

[readSource()]

readVittis	<i>readVittis</i>
------------	-------------------

Description

Read-in cost data from Vittis dataset.

Usage

```
readVittis()
```

Value

National-scale costs of production for 10 crops, disaggregated in 9 distinct cost elements

Author(s)

Debbora Leip

See Also

[readSource()]

Examples

```
## Not run:  
a <- readSource("Vittis")  
  
## End(Not run)
```

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