Package 'rapsimng.decide.core'

November 21, 2026

Title Decision-Oriented Analysis Core for APSIM Next Generation Outputs

Version 0.1.2

Description
Provides a low-level interface for analysing Agricultural Production Systems sIMulator ('APSIM') Next Generation simulation outputs to support structured decision-making workflows.

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Encoding UTF-8

Depends R (>= 4.1.0)

Imports dplyr, rapsimng, tibble, rlang

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

URL https://core.decide.rapsimng.bangyou.me/, https://github.com/byzheng/rapsimng.decide.core

BugReports https://github.com/byzheng/rapsimng.decide.core/issues

Config/roxygen2/version 8.1.1

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-11-21 04:10:02 UTC

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document_lines *Build output lines for a decision report document*

Description

Converts a rapsimng_decide_document object into a character vector that can be written to disk. A document prefix is written first when present, then each non-NULL section body separated by blank lines.

Usage

```
document_lines(document)
```

Arguments

document	A report object with class rapsimng_decide_document.

Value

A character vector containing the ordered document lines.

read_output *Read APSIMX output*

Description

Read APSIMX output

Usage

```
read_output(apsimx_file, report = "HarvestReport", years = NULL)
```

Arguments

apsimx_file	The path to the APSIMX output file (.apsimx)
report	The name of the report to read from the APSIMX output (default: "HarvestReport")
years	Optional numeric vector of years to filter the output by (e.g., 1996:2025)

Value

A data frame containing the APSIMX output data

Examples

```
apsimx_file <- system.file(
  "example", "cultivar.apsimx",
  package = "rapsimng.decide.core"
)
output <- read_output(apsimx_file, years = 2010:2011)
head(output)
```

`write_document` *Write a decision report document to disk*

Description

Serialises a `rapsimng_decide_document` with `document_lines()` and writes the resulting text file to `path`.

Usage

```
write_document(document, path, overwrite = FALSE)
```

Arguments

`document`	A report object with class `rapsimng_decide_document`.
`path`	A single output file path.
`overwrite`	Logical scalar indicating whether an existing file may be replaced.

Value

Invisibly returns `path`.

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