

Package ‘rapsimng.decide.sowing’

October 5, 2026

Title Analyse APSIM Next Generation Simulation Outputs for Sowing Decision

Version 0.1.0

Description

Provides functions to analyse Agricultural Production Systems sIMulator ('APSIM') Next Generation simulation outputs to support sowing decision under specified environments and management assumptions. The package focuses on transparent, reproducible summarisation of model outputs such as sowing window, establishment risk, and early crop development, without performing 'APSIM' simulations, interpreting user intent, or making normative recommendations.

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Encoding UTF-8

Depends R (>= 4.1.0)

Imports dplyr, tibble, rlang, stats, knitr, rapsimng.decide.core

Suggests here, quarto, testthat (>= 3.0.0)

Config/testthat/edition 3

URL <https://sowing.decide.rapsimng.bangyou.me/>,
<https://github.com/byzheng/rapsimng.decide.sowing>

BugReports <https://github.com/byzheng/rapsimng.decide.sowing/issues>

Config/roxygen2/version 8.1.0

NeedsCompilation no

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Repository CRAN

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document	<i>Document sowing window suitability from APSIM NG outputs</i>
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Description

Analyse APSIM NG outputs already loaded into R to assess sowing window suitability under a defined environment and sowing window; returns a structured decision report.

Usage

```
document(data, context = list(), criteria = list(), options = list(), ...)
```

Arguments

data	data.frame/tibble of APSIM outputs.
context	list controlling variable mapping and reporting context.
criteria	list controlling decision criteria, including optional risk and filtering thresholds.
options	list controlling output toggles and figure behaviour.
...	additional values stored in report metadata for downstream use.

Value

A list with class "rapsimng_decide_report" containing four named components:

- meta: metadata describing the decision context and execution.
- metrics: summary metrics produced by the decision workflow.
- tables: tabular outputs ready for reporting.
- figures: figure objects, specifications, or references for visual

evaluate	<i>Evaluate sowing window suitability from APSIM NG outputs</i>
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Description

Analyse APSIM NG outputs already loaded into R to assess sowing window suitability under a defined environment and sowing window; returns a structured decision report.

Usage

```
evaluate(data, context = list(), criteria = list(), options = list(), ...)
```

Arguments

data	data.frame/tibble of APSIM outputs.
context	list controlling variable mapping and reporting context.
criteria	list controlling decision criteria, including optional risk and filtering thresholds.
options	list controlling output toggles and figure behaviour.
...	additional values stored in report metadata for downstream use.

Value

A list with class "rapsimng_decide_report" containing four named components:

- meta: metadata describing the decision context and execution.
- metrics: summary metrics produced by the decision workflow.
- tables: tabular outputs ready for reporting.
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