

Package: rapsimng.decide.sowing (via r-universe)

October 11, 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

Roxygen list(markdown = TRUE)

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

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

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

RemoteRef HEAD

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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 structured decision report as a list containing the evaluation results and metadata.

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

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

Value

A structured decision report as a list containing the evaluation results and metadata.

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