Package: InspectionPlanner (via r-universe)

October 17, 2024

Title Phytosanitary Inspection Sampling Planner

Version 1.2

Description A 'shiny' application to assist in phytosanitary inspections. It generates a diagram of pallets in a lot, highlights the units to be sampled, and documents them based on the selected sampling method (simple random or systematic sampling).

Depends R (>= 3.5.0)

Imports shiny (>= 1.5.0), rmarkdown (>= 2.3), htmltools (>= 0.5.0)

Suggests testthat (>= 3.0.0), devtools, rlang

License GPL-3

Encoding UTF-8

RoxygenNote 7.3.2

Config/testthat/edition 3

NeedsCompilation no

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Repository https://grvisei.r-universe.dev

RemoteUrl https://github.com/cran/InspectionPlanner

RemoteRef HEAD

RemoteSha f7aebf7132bf8cd8e4253cf785672759a662c8eb

Contents

`InspectionPlanner-package`

Phytosanitary Inspection Sampling Planner

Description

The package is a shiny application that assists in planning sampling for phytosanitary inspections, where acceptance sampling is performed on batches of products arranged on pallets. The package generates a diagram that identifies all the units on the pallets, selects the units to be sampled, and documents which units were chosen for inspection.

Details

In phytosanitary inspections conducted at customs, acceptance sampling is commonly performed on batches of products arranged on pallets. This package helps to plan this type of sampling by generating a visual diagram that identifies each unit on the pallets and selects the samples to be inspected. Additionally, it documents which units were selected for inspection, aiding in recording the process and ensuring that phytosanitary inspection standards are met. It supports both simple random sampling and systematic sampling with a random start.

The package allows the user to define the size of a lot to be inspected, based on the number of rows, columns, and pallet height, providing flexibility in modeling different pallet configurations.

Author(s)

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References

Lohr, S. (2019) Sampling, second edition, Chapman and Hall/CRC (ISBN: 9780367273415) Cochran, W.G. (1977) Sampling Techniques, third edition, Wiley (ISBN: 9780471162407)

Examples

```
if (interactive()) {
  run_app()
}
```

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