

# Package ‘nesRdata’

November 9, 2017

**Title** National Eutrophication Survey Data

**Version** 0.1.0

**URL** <https://github.com/jsta/nesRdata>

**BugReports** <https://github.com/jsta/nesRdata/issues>

**Description** Serves data from the United States Environmental Protection Agency (USEPA) National Eutrophication Survey <<https://www.epa.gov/national-aquatic-resource-surveys>>.

**Depends** R (>= 3.4.0)

**Imports** rappdirs, dplyr, purrr, readr, dataone

**License** GPL

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.0.1

**NeedsCompilation** no

**Author** Joseph Stachelek [aut, cre] (0000-0002-5924-2464)

**Maintainer** Joseph Stachelek <[stachel12@msu.edu](mailto:stachel12@msu.edu)>

**Repository** CRAN

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cache_path	<i>cache_path</i>
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**Description**

Return path to OS agnostic cache location specified by the rappdirs package

**Usage**

```
cache_path()
```

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nes	<i>National Eutrophication Survey Data</i>
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**Description**

A dataset containing hydrologic and water quality data for approximately 800 lakes in the continental United States.

**Usage**

```
nes
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 775 rows and 38 columns.

**Examples**

```
data(nes)  
head(nes)
```

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nes_compile	<i>Compile data to R data (rds) object</i>
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**Description**

Compile data from component flat files

**Usage**

```
nes_compile(version_id, format = "rds", folder = tempdir(), skip = NA)
```

**Arguments**

version_id	character nes version string
format	character choice of "rds" or "sqlite"
folder	file.path to data folder; set to cache_path() to have data persist between sessions.
skip	numeric vector of lines to skip on file read. optional.

**Examples**

```
## Not run:
nes_get("1")
nes_compile("1", format = "rds")

nes_get("1", dest_folder = cache_path(), compile = FALSE)
nes_compile("1", folder = cache_path())

## End(Not run)
```

---

 nes\_get

*nes\_get*


---

**Description**

Retrieves external files and store in file cache.

**Usage**

```
nes_get(version_id, skip = NA, dest_folder = tempdir(), compile = TRUE)
```

**Arguments**

version_id	character version id
skip	numeric vector of lines to skip on file read. optional.
dest_folder	file.path optional will default to the location returned by <a href="#">user_data_dir</a> .
compile	logical perform on-the-fly compilation to rds?

**Examples**

```
## Not run:
nes_get(version_id = "1") # save to temp folder

nes_get(version_id = "1", dest_folder = cache_path() # save to cache folder)

## End(Not run)
```

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nes_ingest	<i>Ingest flat files</i>
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**Description**

Ingest data from component flat files

**Usage**

```
nes_ingest(version_id, folder = NA, skip = NA)
```

**Arguments**

version_id	character nes version string
folder	file.path to data folder. optional.
skip	numeric vector of lines to skip on file read. optional.

**Examples**

```
## Not run:
nes_ingest("1")

## End(Not run)
```

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nes_load	<i>nes_load</i>
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**Description**

Load files from local file system

**Usage**

```
nes_load(version_id, folder = tempdir(), format = "rds", fpath = NA)
```

**Arguments**

version_id	character database version string
folder	file.path to data folder; use cache_path() to load cached (non-temporary) data
format	character choice of rds or sqlite
fpath	file.path optionally specify custom location of rds file

**Examples**

```
## Not run:

# load from tempdir
nes_get("1")
dt <- nes_load("1")

# load from cached
nes_get("1", dest_folder = cache_path())
dt <- nes_load("1", folder = cache_path())

## End(Not run)
```

---

```
nes_ls          nes_ls
```

---

**Description**

```
nes_ls
```

**Usage**

```
nes_ls(version_id, folder = temp_path(), ...)
```

**Arguments**

version_id	character version id
folder	file.path to NES data; pass cache_path() to use OS agnostic cache location specified by the rappdirs package.
...	extra arguments passed to list.files

**Examples**

```
nes_ls("1")
```

---

```
nes_versions   nes_versions
```

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**Description**

```
nes_versions
```

**Usage**

```
nes_versions()
```

**Examples**

```
nes_versions()
```

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