

# Package ‘nascaR.data’

June 11, 2026

**Title** NASCAR Race Data

**Version** 3.1.0

**Description** A collection of NASCAR race, driver, owner and manufacturer data across the three major NASCAR divisions: NASCAR Cup Series, NXS, and NASCAR Craftsman Truck Series. The curated data begins with the 1949 season and is updated weekly during the racing season. Explore race, season, or career performance for drivers, teams, and manufacturers throughout NASCAR's history. Data was sourced with permission from DriverAverages.com.

**License** GPL (>= 3)

**Depends** R (>= 4.1.0)

**Encoding** UTF-8

**RoxygenNote** 7.3.3

**Imports** arrow, dplyr, glue, rlang, stringdist, stringr

**Suggests** conflicted, curl, ggtext, httr2, jsonlite, knitr, paws.storage, purrr, rmarkdown, roxygen2, rvest, scales, testthat (>= 3.0.0), tidyverse

**Config/testthat/edition** 3

**VignetteBuilder** knitr

**URL** <https://www.kylegrealis.com/nascaR.data/>

**BugReports** <https://github.com/kyleGrealis/nascaR.data/issues>

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2026-06-11 07:00:02 UTC

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clear_cache	<i>Clear Cached NASCAR Data</i>
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### Description

Clears the in-memory cache so the next call to [load\\_series\(\)](#) will re-download from cloud storage. Also removes any leftover disk cache from previous package versions.

### Usage

```
clear_cache()
```

### Value

Invisibly returns NULL.

### See Also

[load\\_series\(\)](#) for data access.

### Examples

```
## Not run:
# Clear in-memory cache
clear_cache()

# Next call downloads fresh data
cup <- load_series("cup")

## End(Not run)
```

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export_series	<i>Export NASCAR Series Data</i>
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**Description**

Downloads or loads the specified NASCAR series data and writes it to a file in either CSV or Parquet format.

**Usage**

```
export_series(series = c("cup", "nxs", "truck"), path, format = NULL, ...)
```

**Arguments**

series	Character. The series to export. One of "cup", "nxs", or "truck".
path	Character. Path to the output file (including extension).
format	Character. Output format: "csv", "parquet", or NULL. If NULL (default), the format is guessed from the file extension of path.
...	Additional arguments passed to <code>utils::write.csv()</code> (for CSV) or <code>arrow::write_parquet()</code> (for Parquet).

**Value**

Invisibly returns the exported data.

**Examples**

```
## Not run:
# Export Cup Series data to CSV
export_series("cup", "cup_data.csv")

# Export Truck Series data to Parquet
export_series("truck", "truck_data.parquet")

## End(Not run)
```

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get_driver_info	<i>Get Driver Info with Smart Matching</i>
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**Description**

Search for a driver by name and return career statistics. Supports partial names, typos, and case-insensitive input via the built-in fuzzy matching engine.

**Usage**

```
get_driver_info(driver, series = "all", type = "summary", interactive = TRUE)
```

**Arguments**

driver	Character string of the driver name to search for. Supports partial names and common misspellings (e.g., "earnhart" finds Earnhardt).
series	Character string ("cup", "nxs", "truck", "all") or a pre-loaded data frame. Default is "all".
type	Character string specifying the return format: "summary" Career totals grouped by series (Seasons, Career Races, Wins, Best Finish, Avg Finish, Laps Raced, Laps Led). "season" Season-by-season breakdown (Races, Wins, Best Finish, Avg Finish, Laps Raced, Laps Led). "all" Complete race-by-race results.
interactive	Logical. When TRUE (default) and the R session is interactive, prompts the user to select from multiple matches. When FALSE, silently uses the first match.

**Value**

A tibble of driver statistics (format depends on type), or invisible(NULL) if no match is found.

**See Also**

[get\\_team\\_info\(\)](#), [get\\_manufacturer\\_info\(\)](#), [load\\_series\(\)](#), [series\\_data](#)

**Examples**

```
# Career summary across all series
get_driver_info("Christopher Bell")

# Season-by-season Cup data
get_driver_info(
  "Christopher Bell",
  series = "cup",
  type = "season"
)
```

---

get\_manufacturer\_info *Get Manufacturer Info with Smart Matching*

---

**Description**

Search for a manufacturer by name and return performance statistics. Uses fuzzy matching to handle partial names, typos, and case-insensitive searches.

## Usage

```
get_manufacturer_info(  
  manufacturer,  
  series = "all",  
  type = "summary",  
  interactive = TRUE  
)
```

## Arguments

manufacturer	Character string of the manufacturer name to search for.
series	Character string ("cup", "nxs", "truck", "all") or a pre-loaded data frame. Default is "all".
type	Character string specifying the return format: "summary" Career totals grouped by series (Seasons, Races, Wins, Best Finish, Avg Finish, Laps Raced, Laps Led). "season" Season-by-season breakdown (Races, Wins, Best Finish, Avg Finish, Laps Raced, Laps Led). "all" Complete race-by-race results.
interactive	Logical. When TRUE (default) and the R session is interactive, prompts the user to select from multiple matches. When FALSE, silently uses the first match.

## Value

A tibble of manufacturer statistics (format depends on type), or invisible(NULL) if no match is found.

## See Also

[get\\_driver\\_info\(\)](#), [get\\_team\\_info\(\)](#), [load\\_series\(\)](#), [series\\_data](#)

## Examples

```
# Career summary across all series  
get_manufacturer_info("Toyota")  
  
# Season-by-season Cup data  
get_manufacturer_info(  
  "Toyota",  
  series = "cup",  
  type = "season"  
)
```

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<code>get_team_info</code>	<i>Get Team Info with Smart Matching</i>
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### Description

Search for a team by name and return performance statistics. Supports partial names, typos, and case-insensitive input via the built-in fuzzy matching engine.

### Usage

```
get_team_info(team, series = "all", type = "summary", interactive = TRUE)
```

### Arguments

<code>team</code>	Character string of the team name to search for. Supports partial names and common misspellings (e.g., "gibbs" finds Joe Gibbs Racing).
<code>series</code>	Character string ("cup", "nxs", "truck", "all") or a pre-loaded data frame. Default is "all".
<code>type</code>	Character string specifying the return format: "summary" Career totals grouped by series (Seasons, Career Races, # of Drivers, Wins, Best Finish, Avg Finish, Laps Raced, Laps Led). "season" Season-by-season breakdown (Races, # of Drivers, Wins, Best Finish, Avg Finish, Laps Raced, Laps Led). "all" Complete race-by-race results.
<code>interactive</code>	Logical. When TRUE (default) and the R session is interactive, prompts the user to select from multiple matches. When FALSE, silently uses the first match.

### Value

A tibble of team statistics (format depends on type), or `invisible(NULL)` if no match is found.

### See Also

[get\\_driver\\_info\(\)](#), [get\\_manufacturer\\_info\(\)](#), [load\\_series\(\)](#), [series\\_data](#)

### Examples

```
# Career summary across all series
get_team_info("Joe Gibbs Racing")

# Season-by-season Cup data
get_team_info(
  "Joe Gibbs Racing",
  series = "cup",
  type = "season"
)
```

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load_series	<i>Load NASCAR Series Data</i>
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### Description

Downloads NASCAR series data from Cloudflare R2 as a parquet file. Data is cached in memory for the current R session so repeated calls are instant. Each new R session downloads fresh data, ensuring you always have the latest results.

### Usage

```
load_series(series = c("cup", "nxs", "truck"), refresh = FALSE)
```

### Arguments

series	Character. The series to load. One of "cup", "nxs", or "truck".
refresh	Logical. If TRUE, bypass the in-memory cache and re-download from cloud storage. Default is FALSE.

### Details

#### Why "nxs"?:

NASCAR's NXS uses the sponsor-neutral identifier "nxs" rather than a sponsor name. The series has been sponsored by Busch (1984-2007), Nationwide (2008-2014), Xfinity (2015-2025), and O'Reilly Auto Parts (2026-present). Using "nxs" keeps the identifier stable across sponsor changes.

#### Caching:

Data is cached in memory for the current R session. Repeated calls return instantly without re-downloading. Starting a new R session always fetches the latest data from R2.

Use `refresh = TRUE` to force a re-download within a session, or `clear_cache()` to reset the in-memory cache.

### Value

A data frame with 21 columns of race results: Season, Race, Track, Name, Length, Surface, Finish, Start, Car, Driver, Team, Make, Pts, Laps, Led, Status, S1, S2, S3, Rating, and Win.

### See Also

[series\\_data](#) for column descriptions, [clear\\_cache\(\)](#) for cache management, [get\\_driver\\_info\(\)](#) for driver statistics.

## Examples

```
# Load Cup Series data (downloads on first call, cached after)
cup <- load_series("cup")

# Load NXS data
nxs <- load_series("nxs")

# Load Truck Series data
truck <- load_series("truck")

# Force re-download from cloud storage
cup <- load_series("cup", refresh = TRUE)
```

---

series\_data

*NASCAR Series Data*

---

## Description

Historical race results from NASCAR's three major national series, sourced with permission from [DriverAverages.com](#). Data is hosted on Cloudflare R2 and accessed via `load_series()`.

### Cup Series (1949–present)

The NASCAR Cup Series is the sport's premier division. Originally called the Strictly Stock Series in its inaugural 1949 season, it has been known by several names tied to title sponsors: Grand National (1950–1970), Winston Cup (1971–2003), Nextel Cup (2004–2007), Sprint Cup (2008–2016), Monster Energy Cup (2017–2019), and the NASCAR Cup Series (2020–present).

```
cup <- load_series("cup")
```

### Xfinity / O'Reilly Auto Parts Series (1982–present)

NASCAR's second-tier national series, often considered a proving ground for drivers aspiring to reach the Cup Series. It debuted in 1982 as the Budweiser Late Model Sportsman Series and has carried the names of several title sponsors: Busch Series (1984–2007), Nationwide Series (2008–2014), Xfinity Series (2015–2025), and the O'Reilly Auto Parts Series (2026–present).

```
nxs <- load_series("nxs")
```

The series identifier is "nxs", NASCAR's own sponsor-neutral abbreviation. This avoids tying the code to any single title sponsor.

### Truck Series (1995–present)

The NASCAR Craftsman Truck Series features modified pickup trucks racing on a mix of ovals, short tracks, road courses, and dirt tracks. It launched in 1995 as the SuperTruck Series and has been sponsored under the names Craftsman Truck (1995–2008), Camping World Truck (2009–2022), and Craftsman Truck again (2023–present).

```
truck <- load_series("truck")
```

### Variables

All three series share the same column structure:

**Season** Integer. Year the race took place.

**Race** Integer. Race number within the season.

**Track** Character. Name of the track or venue.

**Name** Character. Official race name (includes sponsor).

**Length** Numeric. Track length in miles.

**Surface** Character. Track surface type (e.g., "Paved", "Dirt").

**Finish** Integer. Official finishing position.

**Start** Integer. Starting grid position.

**Car** Character. Car number.

**Driver** Character. Driver's full name.

**Team** Character. Team or car owner name.

**Make** Character. Vehicle manufacturer (e.g., "Chevrolet", "Ford", "Toyota").

**Pts** Integer. Championship points earned.

**Laps** Integer. Total laps completed.

**Led** Integer. Number of laps led.

**Status** Character. Race completion status (e.g., "Running", "Crash", "Engine").

**S1** Numeric. Stage 1 points (2017–present, NA for earlier seasons).

**S2** Numeric. Stage 2 points (2017–present, NA for earlier seasons).

**S3** Numeric. Stage 3 points. Cup Series only, 2024–present (NA for NXS, Truck, and pre-2024 Cup).

**Rating** Numeric. Driver/loop rating for the race (NA where unavailable).

**Win** Integer. Win indicator (1 = won, 0 = did not win).

### Data Source

All data is sourced with permission from [DriverAverages.com](https://www.driveraverages.com) and updated weekly via an automated pipeline. See [load\\_series\(\)](#) for access details and [clear\\_cache\(\)](#) for cache management.

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