

# Package: ncaavolleyballr (via r-universe)

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**Type** Package

**Title** Extract Data from NCAA Women's and Men's Volleyball Website

**Version** 0.4.2

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**Description** Extracts team records/schedules and player statistics for the 2020-2024 National Collegiate Athletic Association (NCAA) women's and men's divisions I, II, and III volleyball teams from <<https://stats.ncaa.org>>. Functions can aggregate statistics for teams, conferences, divisions, or custom groups of teams.

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**Config/testthat/edition** 3

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<https://jeffreystevens.github.io/ncaavolleyballr/>

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## Contents

conference_stats . . . . .	2
division_stats . . . . .	3
find_team_contests . . . . .	4
find_team_id . . . . .	5
find_team_name . . . . .	6
get_teams . . . . .	6
group_stats . . . . .	7
match_pbp . . . . .	8
mvb_teams . . . . .	9
ncaa_conferences . . . . .	10
ncaa_sports . . . . .	10
ncaa_teams . . . . .	11
player_match_stats . . . . .	12
player_season_stats . . . . .	13
team_match_stats . . . . .	13
team_season_info . . . . .	14
team_season_stats . . . . .	15
wvb_teams . . . . .	16
<b>Index</b>	<b>17</b>

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conference_stats	<i>Aggregate player statistics for a NCAA conference and seasons</i>
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---

## Description

This is a wrapper around `group_stats()` that extracts season, match, or pbp data from players in all teams in the chosen conference. For season stats, it aggregates all player data and team data into separate data frames and combines them into a list. For match and pbp stats, it aggregates into a data frame. Conferences names can be found in [ncaa\\_conferences](#).

## Usage

```
conference_stats(
  year = NULL,
  conf = NULL,
  level = NULL,
  sport = "WVB",
  save = FALSE,
  path = "."
)
```

### Arguments

year	Numeric vector of years for fall of desired seasons.
conf	NCAA conference name.
level	Character string defining whether to aggregate "season", "match", or play-by-play ("pbp") data.
sport	Three letter abbreviation for NCAA sport (must be upper case; for example "WVB" for women's volleyball and "MVB" for men's volleyball).
save	Logical for whether to save the statistics locally as CSVs (default FALSE).
path	Character string of path to save statistics files.

### Value

For season level, returns list with data frames of player statistics and team statistics. For match and pbp levels, returns data frame of player statistics and play-by-play information respectively.

### Note

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

### See Also

Other functions that aggregate statistics: [division\\_stats\(\)](#), [group\\_stats\(\)](#)

### Examples

```
conference_stats(year = 2024, conf = "Peach Belt", level = "season")
```

---

division\_stats

*Aggregate player statistics for a NCAA division and seasons*

---

### Description

This is a wrapper around [group\\_stats\(\)](#) that extracts season, match, or pbp data from players in all teams in the chosen division. For season stats, it aggregates all player data and team data into separate data frames and combines them into a list. For match and pbp stats, it aggregates into a data frame.

### Usage

```
division_stats(  
  year = NULL,  
  division = 1,  
  level = NULL,  
  sport = "WVB",  
  save = FALSE,  
  path = "."  
)
```

**Arguments**

year	Numeric vector of years for fall of desired seasons.
division	NCAA division (must be 1, 2, or 3).
level	Character string defining whether to aggregate "season", "match", or play-by-play ("pbp") data.
sport	Three letter abbreviation for NCAA sport (must be upper case; for example "WVB" for women's volleyball and "MVB" for men's volleyball).
save	Logical for whether to save the statistics locally as CSVs (default FALSE).
path	Character string of path to save statistics files.

**Value**

For season level, returns list with data frames of player statistics and team statistics. For match and pbp levels, returns data frame of player statistics and play-by-play information respectively.

**Note**

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

**See Also**

Other functions that aggregate statistics: [conference\\_stats\(\)](#), [group\\_stats\(\)](#)

---

find_team_contests	<i>Extract date, opponent, and contest ID for team and season</i>
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**Description**

NCAA datasets use a unique ID for each sport, team, season, and match. This function returns a data frame of dates, opponent team names, and contest IDs for each NCAA contest (volleyball match) for each team and season.

**Usage**

```
find_team_contests(team_id = NULL)
```

**Arguments**

team_id	Team ID determined by NCAA for season. To find ID, use <a href="#">find_team_id()</a> .
---------	---

**Value**

Returns a data frame that includes date, team, opponent, and contest ID for each season's contest.

**Note**

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

## Examples

```
find_team_contests(team_id = "585290")
```

---

find_team_id	<i>Find team ID for season</i>
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## Description

NCAA datasets use a unique ID for each team and season. To access a team's data, we must know the volleyball team ID. This function looks up the team ID from [wvb\\_teams](#) or [mvb\\_teams](#) using the team name. Team names can be found in [ncaa\\_teams](#) or searched with [find\\_team\\_name\(\)](#).

## Usage

```
find_team_id(team = NULL, year = NULL, sport = "WVB")
```

## Arguments

team	Name of school. Must match name used by NCAA. Find exact team name with <a href="#">find_team_name()</a> .
year	Numeric vector of years for fall of desired seasons.
sport	Three letter abbreviation for NCAA sport (must be upper case; for example "WVB" for women's volleyball and "MVB" for men's volleyball).

## Value

Returns a character string of team ID.

## Note

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

## See Also

Other search functions: [find\\_team\\_name\(\)](#)

## Examples

```
find_team_id(team = "Nebraska", year = 2024)
find_team_id(team = "UCLA", year = 2023, sport = "MVB")
```

---

find_team_name	<i>Match pattern to find team names</i>
----------------	---

---

### Description

This is a convenience function to find NCAA team names in [ncaa\\_teams](#). Once the proper team name is found, it can be passed to [find\\_team\\_id\(\)](#) or [group\\_stats\(\)](#).

### Usage

```
find_team_name(pattern = NULL)
```

### Arguments

`pattern` Character string of pattern you want to find in the vector of team names.

### Value

Returns a character vector of team names that include the submitted pattern.

### Note

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

### See Also

Other search functions: [find\\_team\\_id\(\)](#)

### Examples

```
find_team_name(pattern = "Neb")
```

---

get_teams	<i>Extract data frame of team names, IDs, conference, division, and season</i>
-----------	--

---

### Description

NCAA datasets use a unique ID for each sport, team, and season. This function extracts team names, IDs, and conferences for each NCAA team in a division. However, you should not need to use this function for volleyball data from 2020-2024, as it has been used to generate [wvb\\_teams](#) and [mvb\\_teams](#). However, it is available to use for other sports, using the appropriate three letter sport code drawn from [ncaa\\_sports](#) (e.g., men's baseball is "MBA").

**Usage**

```
get_teams(year = NULL, division = 1, sport = "WVB")
```

**Arguments**

year	Single numeric year for fall of desired season.
division	NCAA division (must be 1, 2, or 3).
sport	Three letter abbreviation for NCAA sport (must be upper case; for example "WVB" for women's volleyball and "MVB" for men's volleyball).

**Value**

Returns a data frame of all teams, their team ID, division, conference, and season.

**Note**

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

This function is a modification of the `ncaa_teams()` function from the `{baseballr}` package.

---

group_stats	<i>Aggregate player statistics and play-by-play information</i>
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---

**Description**

This function aggregates player statistics and play-by-play information within a season by applying `player_season_stats()`, `player_match_stats()`, or `match_pbp()` across groups of teams (for `player_season_stats()`) or across contests within a season (for `player_match_stats()` and `match_pbp()`). For season stats, it aggregates all player data and team data into separate data frames and combines them into a list. For instance, if you want to extract the data from the teams in the women's 2024 Final Four, pass a vector of `c("Louisville", "Nebraska", "Penn State", "Pittsburgh")` to the function. For match or play-by-play data for a team, pass a single team name and year. Team names can be found in `ncaa_teams` or by using `find_team_name()`.

**Usage**

```
group_stats(  
  teams = NULL,  
  year = NULL,  
  level = "season",  
  unique = TRUE,  
  sport = "WVB"  
)
```

**Arguments**

teams	Character vector of team names to aggregate.
year	Numeric vector of years for fall of desired seasons.
level	Character string defining whether to aggregate "season", "match", or play-by-play ("pbp") data.
unique	Logical indicating whether to only process unique contests (TRUE) or whether to process duplicated contests (FALSE). Default is TRUE.
sport	Three letter abbreviation for NCAA sport (must be upper case; for example "WVB" for women's volleyball and "MVB" for men's volleyball).

**Value**

For season level, returns list with data frames of player statistics and team statistics. For match and pbp levels, returns data frame of player statistics and play-by-play information respectively.

**Note**

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

**See Also**

Other functions that aggregate statistics: [conference\\_stats\(\)](#), [division\\_stats\(\)](#)

**Examples**

```
group_stats(teams = c("Louisville", "Nebraska", "Penn St.", "Pittsburgh"),
year = 2024, level = "season")
```

---

match\_pbp

*Extract play-by-play information for a particular match*


---

**Description**

The NCAA's page for a match/contest includes a tab called "Play By Play". This function extracts the tables of play-by-play information for each set.

**Usage**

```
match_pbp(contest = NULL)
```

**Arguments**

contest	Contest ID determined by NCAA for match. To find ID, use <a href="#">find_team_contests()</a> for a team and season.
---------	--

**Value**

Returns a data frame of set number, teams, score, event, and player responsible for the event.

**Note**

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

**Examples**

```
match_pbp(contest = "6080706")
```

---

mvb_teams	<i>NCAA Men's Volleyball Teams 2020-2024</i>
-----------	--

---

**Description**

This data frame includes all men's NCAA Division 1 and 3 teams from 2020-2024.

**Usage**

```
mvb_teams
```

**Format**

A data frame with 873 rows and 6 columns:

**team\_id** Team ID for season/year

**team\_name** Team name

**conference\_id** Conference ID

**conference** Conference name

**div** NCAA division number (1 or 3)

**yr** Year for fall of season

**Source**

<https://stats.ncaa.org>

**See Also**

Other data sets: [ncaa\\_conferences](#), [ncaa\\_sports](#), [ncaa\\_teams](#), [wvb\\_teams](#)

**Examples**

```
head(mvb_teams)
```

---

ncaa_conferences	<i>NCAA Conference Names</i>
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---

**Description**

This vector includes names for all NCAA volleyball conferences.

**Usage**

```
ncaa_conferences
```

**Format**

A character vector with 111 conference names.

**Source**

<https://stats.ncaa.org>

**See Also**

Other data sets: [mvb\\_teams](#), [ncaa\\_sports](#), [ncaa\\_teams](#), [wvb\\_teams](#)

**Examples**

```
head(ncaa_conferences)
```

---

ncaa_sports	<i>NCAA Sports and Sport Codes</i>
-------------	------------------------------------

---

**Description**

This data frame includes all NCAA women's and men's sports and the codes used to refer to the sports.

**Usage**

```
ncaa_sports
```

**Format**

A data frame with 100 rows and 2 columns:

**code** Sport code

**sport** Sport name

**Source**

[https://ncaaorg.s3.amazonaws.com/championships/resources/common/NCAA\\_SportCodes.pdf](https://ncaaorg.s3.amazonaws.com/championships/resources/common/NCAA_SportCodes.pdf)

**See Also**

Other data sets: [mvb\\_teams](#), [ncaa\\_conferences](#), [ncaa\\_teams](#), [wvb\\_teams](#)

**Examples**

```
head(ncaa_sports)
```

---

ncaa\_teams

*NCAA Team Names*

---

**Description**

This vector includes names for all NCAA volleyball teams.

**Usage**

```
ncaa_teams
```

**Format**

A character vector with 1,089 team names.

**Source**

<https://stats.ncaa.org>

**See Also**

Other data sets: [mvb\\_teams](#), [ncaa\\_conferences](#), [ncaa\\_sports](#), [wvb\\_teams](#)

**Examples**

```
head(ncaa_teams)
```

---

player\_match\_stats      *Extract player statistics for a particular match*

---

### Description

The NCAA's page for a match/contest includes a tab called "Individual Statistics". This function extracts the tables of player match statistics for both home and away teams, as well as team statistics (though these can be omitted). If a particular team is specified, only that team's statistics will be returned.

### Usage

```
player_match_stats(  
  contest = NULL,  
  team = NULL,  
  team_stats = TRUE,  
  sport = "WVB"  
)
```

### Arguments

contest	Contest ID determined by NCAA for match. To find ID, use <a href="#">find_team_contests()</a> for a team and season.
team	Name of school. Must match name used by NCAA. Find exact team name with <a href="#">find_team_name()</a> .
team_stats	Logical indicating whether to include (TRUE) or exclude (FALSE) team statistics. Default includes team statistics with player statistics.
sport	Three letter abbreviation for NCAA sport (must be upper case; for example "WVB" for women's volleyball and "MVB" for men's volleyball).

### Value

By default, returns data frame that includes both home and away team match statistics. If team is specified, only that team's data are returned.

### Note

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

### See Also

Other functions that extract player statistics: [player\\_season\\_stats\(\)](#)

### Examples

```
player_match_stats(contest = "6080706")
```

---

player\_season\_stats     *Extract player statistics from a particular team and season*

---

### Description

The NCAA's main page for a team includes a tab called "Team Statistics". This function extracts the table of player statistics for the season, as well as team and opponent statistics (though these can be omitted).

### Usage

```
player_season_stats(team_id, team_stats = TRUE)
```

### Arguments

`team_id`     Team ID determined by NCAA for season. To find ID, use [find\\_team\\_id\(\)](#).  
`team_stats`     Logical indicating whether to include (TRUE) or exclude (FALSE) team statistics. Default includes team statistics with player statistics.

### Value

Returns a data frame of player statistics. Note that hometown and high school were added in 2024.

### Note

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

### See Also

Other functions that extract player statistics: [player\\_match\\_stats\(\)](#)

### Examples

```
player_season_stats(team_id = "585290")
```

---

team\_match\_stats     *Extract team summary statistics for all matches in a particular season*

---

### Description

The NCAA's main page for a team includes a tab called "Game By Game" and a section called "Game by Game Stats". This function extracts the team's summary statistics for each match of the season.

**Usage**

```
team_match_stats(team_id = NULL, opponent = FALSE, sport = "WVB")
```

**Arguments**

`team_id` Team ID determined by NCAA for season. To find ID, use [find\\_team\\_id\(\)](#).

`opponent` Logical indicating whether to include team's stats (FALSE) or opponent's stats (TRUE). Default is set to FALSE, returning team stats.

`sport` Three letter abbreviation for NCAA sport (must be upper case; for example "WVB" for women's volleyball and "MVB" for men's volleyball).

**Value**

Returns a data frame of summary team statistics for each match of the season.

**Note**

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

**See Also**

Other functions that extract team statistics: [team\\_season\\_info\(\)](#), [team\\_season\\_stats\(\)](#)

**Examples**

```
team_match_stats(team_id = "585290")
```

---

<code>team_season_info</code>	<i>Extract arena, coach, record, and schedule information for a particular team and season</i>
-------------------------------	--

---

**Description**

The NCAA's main page for a team includes a tab called "Schedule/Results". This function extracts information about the team's venue, coach, and records, as well as the table of the schedule and results. This returns a list, so you can subset specific components with `$` (e.g., for coach information from an object called `output`, use `output$coach`).

**Usage**

```
team_season_info(team_id = NULL)
```

**Arguments**

`team_id` Team ID determined by NCAA for season. To find ID, use [find\\_team\\_id\(\)](#).

**Value**

Returns a list that includes arena, coach, schedule, and record information.

**Note**

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

**See Also**

Other functions that extract team statistics: [team\\_match\\_stats\(\)](#), [team\\_season\\_stats\(\)](#)

**Examples**

```
team_season_info(team_id = "585290")
```

---

team_season_stats	<i>Extract teams statistics for season statistics from 2001-2024</i>
-------------------	--

---

**Description**

The NCAA's main page for a team includes a tab called "Game By Game" and a section called "Career Totals". Though the page only shows one season's worth of information, this function extracts season summary stats starting with 2001. We have included the conference starting with 2020 (conference data for previous seasons is not currently available).

**Usage**

```
team_season_stats(team = NULL, opponent = FALSE, sport = "WVB")
```

**Arguments**

team	Name of school. Must match name used by NCAA. Find exact team name with <a href="#">find_team_name()</a> .
opponent	Logical indicating whether to include team's stats (FALSE) or opponent's stats (TRUE). Default is set to FALSE, returning team stats.
sport	Three letter abbreviation for NCAA sport (must be upper case; for example "WVB" for women's volleyball and "MVB" for men's volleyball).

**Value**

Returns a data frame of summary team statistics for each season.

**Note**

This function **requires internet connectivity** as it checks the [NCAA website](#) for information.

**See Also**

Other functions that extract team statistics: [team\\_match\\_stats\(\)](#), [team\\_season\\_info\(\)](#)

**Examples**

```
team_season_stats(team = "Nebraska")
```

---

wvb\_teams

*NCAA Women's Volleyball Teams 2020-2024*

---

**Description**

This data frame includes all women's NCAA Division 1, 2, and 3 teams from 2020-2024.

**Usage**

```
wvb_teams
```

**Format**

A data frame with 5,289 rows and 6 columns:

**team\_id** Team ID for season/year

**team\_name** Team name

**conference\_id** Conference ID

**conference** Conference name

**div** NCAA division number (1, 2, or 3)

**yr** Year for fall of season

**Source**

<https://stats.ncaa.org>

**See Also**

Other data sets: [mvb\\_teams](#), [ncaa\\_conferences](#), [ncaa\\_sports](#), [ncaa\\_teams](#)

**Examples**

```
head(wvb_teams)
```

# Index

## \* data sets

[mvb\\_teams](#), 9  
[ncaa\\_conferences](#), 10  
[ncaa\\_sports](#), 10  
[ncaa\\_teams](#), 11  
[wvb\\_teams](#), 16

## \* datasets

[mvb\\_teams](#), 9  
[ncaa\\_conferences](#), 10  
[ncaa\\_sports](#), 10  
[ncaa\\_teams](#), 11  
[wvb\\_teams](#), 16

## \* functions that aggregate statistics

[conference\\_stats](#), 2  
[division\\_stats](#), 3  
[group\\_stats](#), 7

## \* functions that extract player statistics

[player\\_match\\_stats](#), 12  
[player\\_season\\_stats](#), 13

## \* functions that extract team statistics

[team\\_match\\_stats](#), 13  
[team\\_season\\_info](#), 14  
[team\\_season\\_stats](#), 15

## \* search functions

[find\\_team\\_id](#), 5  
[find\\_team\\_name](#), 6

[conference\\_stats](#), 2, 4, 8

[division\\_stats](#), 3, 3, 8

[find\\_team\\_contests](#), 4  
[find\\_team\\_contests\(\)](#), 8, 12  
[find\\_team\\_id](#), 5, 6  
[find\\_team\\_id\(\)](#), 4, 6, 13, 14  
[find\\_team\\_name](#), 5, 6  
[find\\_team\\_name\(\)](#), 5, 7, 12, 15

[get\\_teams](#), 6

[group\\_stats](#), 3, 4, 7

[group\\_stats\(\)](#), 2, 3, 6

[match\\_pbp](#), 8

[match\\_pbp\(\)](#), 7

[mvb\\_teams](#), 5, 6, 9, 10, 11, 16

[ncaa\\_conferences](#), 2, 9, 10, 11, 16

[ncaa\\_sports](#), 6, 9, 10, 10, 11, 16

[ncaa\\_teams](#), 5–7, 9, 10, 11, 11, 16

[player\\_match\\_stats](#), 12, 13

[player\\_match\\_stats\(\)](#), 7

[player\\_season\\_stats](#), 12, 13

[player\\_season\\_stats\(\)](#), 7

[team\\_match\\_stats](#), 13, 15, 16

[team\\_season\\_info](#), 14, 14, 16

[team\\_season\\_stats](#), 14, 15, 15

[wvb\\_teams](#), 5, 6, 9–11, 16