

Package: pssp (via r-universe)

November 22, 2024

Title Package to interface with the WDFW Puget Sound sampling database

Version 0.2.0

Description The pssp package serves as an interface between R and the Puget Sound sampling database. It's goal is to ease the burden of retrieving and analyzing sport creel information in Puget Sound.

License MIT + file LICENSE

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

Imports broom, cli, DBI, dplyr, ggplot2, glue, janitor, leaflet, leaflet.extras, lubridate, odbc, purrr, rlang, stats, stringr, tibble, tidyr, tidyselect, withr

Config/pak/sysreqs libgdal-dev gdal-bin libgeos-dev make libicu-dev libpng-dev unixodbc-dev libproj-dev libsqlite3-dev

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

RemoteUrl <https://github.com/FRAMverse/pssp>

RemoteRef HEAD

RemoteSha a73c7a8c078694126e1941161ce60fd1eed78878

Contents

add_time_steps	2
aerial_estimator	3
aerial_estimator_stats	4
aerial_pull	4
bs_map	5
bs_pull	6
bs_site_weights	6
bs_site_weights_in	7
bs_site_weights_out	8
calculate_total_length	8

check_freshness	9
ds_bio_pull	9
ds_encounters	10
ds_filter_insample	11
ds_filter_insample_aerial	12
ds_filter_insample_murthy	12
ds_historical_cpue_chart	13
ds_pull_sampling_effort	14
ds_releases_pull	14
ds_salmon_summary	15
ds_sampling_effort_sampler_summary	16
ds_sampling_effort_summary	17
identify_in_sample	18
management_week	18
marine_pull	19
pssp_last_update	20
pssp_query	20
pssp_refresh_data	21
statistical_week	21
tf_cv	22
tf_descriptive_length	22
tf_effort_summary_week	23
tf_hist	24
tf_interagency_chisq	25
tf_interagency_histogram	25
tf_interagency_lm_summary	26
tf_interagency_summary	27
tf_lm_summary	27
tf_lm_summary_week	28
tf_map	29
tf_mortality	29
tf_pull	30
tf_pvalue_history	31
tf_scatter	31
tf_summary	32
vtr_pull	33
Index	35

add_time_steps	<i>Add timestep columns to a dataframe</i>
----------------	--

Description

Adds a time step column to a dataframe

Usage

```
add_time_steps(  
  .data,  
  date_column = "survey_datetime",  
  species = c("chinook", "coho")  
)
```

Arguments

.data	dataframe
date_column	Column of the datetime
species	Species, either chinook or coho

Examples

```
## Not run:  
df |> add_time_steps()  
  
## End(Not run)
```

aerial_estimator	<i>Aerial Estimator Table</i>
------------------	-------------------------------

Description

Finds in-sample boats during the flight and calculates various numbers from it

Usage

```
aerial_estimator(catch_area, start_date, end_date)
```

Arguments

catch_area	Valid catch area code
start_date	Start date of search
end_date	End date of search

See Also

Other Aerial Effort Surveys: [aerial_estimator_stats\(\)](#), [aerial_pull\(\)](#)

Examples

```
## Not run: df <- aerial_estimator('07', '2021-07-01', '2021-07-07')
```

aerial_estimator_stats

Aerial Estimator Table

Description

Calculates the adjusted proportion and variance of the aerial estimator table

Usage

```
aerial_estimator_stats(.data, bad_flights = FALSE)
```

Arguments

.data	Dataframe
bad_flights	Throws out flights where there were more boats sampled at the dock than see from the air

See Also

Other Aerial Effort Surveys: [aerial_estimator\(\)](#), [aerial_pull\(\)](#)

Examples

```
## Not run: df <- aerial_estimator('07', '2021-07-01', '2021-07-07')
df |>
  aerial_estimator_stats()

## End(Not run)
```

aerial_pull

Aerial data pull

Description

Pulls the aerial data

Usage

```
aerial_pull(
  catch_area,
  start_date,
  end_date,
  fresh = FALSE,
  check_fresh = TRUE
)
```

Arguments

catch_area	Valid catch area code
start_date	Start date of search
end_date	End date of search
fresh	Boolean. Ensures data is updated
check_fresh	Boolean. Checks whether data is current

See Also

Other Aerial Effort Surveys: [aerial_estimator\(\)](#), [aerial_estimator_stats\(\)](#)

Examples

```
## Not run: df <- aerial_pull('07', '2021-07-01', '2021-07-07')
```

bs_map	<i>Effort map</i>
--------	-------------------

Description

Provides a heat map of angling effort

Usage

```
bs_map(.data, blur = 25, max = 0.05, radius = 10)
```

Arguments

.data	Dataframe
blur	Inherited argument from leaflet
max	Inherited argument from leaflet
radius	Inherited argument from leaflet

See Also

Other Boat Effort Surveys: [bs_pull\(\)](#), [bs_site_weights\(\)](#), [bs_site_weights_in\(\)](#), [bs_site_weights_out\(\)](#)

Examples

```
## Not run: bs_data |> bs_map()
```

bs_pull	<i>Downloads test fishing data from pssp</i>
---------	--

Description

Queries RMIS for release information, defaults to tagged releases

Usage

```
bs_pull(
  catch_area,
  start_date,
  end_date,
  fresh = FALSE,
  check_fresh = TRUE,
  dsn = "pssp_prod64"
)
```

Arguments

catch_area	Valid catch area code
start_date	Start date of search
end_date	End date of search
fresh	Boolean. Ensures data is updated
check_fresh	Boolean. Checks whether data is current
dsn	DSN for the database connection. Default 'pssp_prod64'

See Also

Other Boat Effort Surveys: [bs_map\(\)](#), [bs_site_weights\(\)](#), [bs_site_weights_in\(\)](#), [bs_site_weights_out\(\)](#)

Examples

```
## Not run: bs_data <- bs_pull('10', '2021-11-01', '2021-12-04')
```

bs_site_weights	<i>Calculates site weights</i>
-----------------	--------------------------------

Description

Calculates site weights

Usage

```
bs_site_weights(.data, sample_type = c("in_sample", "out_sample"))
```

Arguments

.data Dataframe
sample_type Return in sample site weights or out of sample site weights

See Also

Other Boat Effort Surveys: [bs_map\(\)](#), [bs_pull\(\)](#), [bs_site_weights_in\(\)](#), [bs_site_weights_out\(\)](#)

Examples

```
## Not run: bs_data |> bs_site_weights(sample_type = 'in_sample')  
## Not run: bs_data |> bs_site_weights(sample_type = 'out_sample')
```

bs_site_weights_in *Calculates in-sample site weights*

Description

Calculates in-sample site weights

Usage

```
bs_site_weights_in(.data)
```

Arguments

.data Dataframe

See Also

Other Boat Effort Surveys: [bs_map\(\)](#), [bs_pull\(\)](#), [bs_site_weights\(\)](#), [bs_site_weights_out\(\)](#)

Examples

```
## Not run: bs_data |> bs_site_weights_in()
```

bs_site_weights_out *Calculates out-of-sample site weights*

Description

Calculates out-of-sample site weights

Usage

```
bs_site_weights_out(.data)
```

Arguments

.data Dataframe

See Also

Other Boat Effort Surveys: [bs_map\(\)](#), [bs_pull\(\)](#), [bs_site_weights\(\)](#), [bs_site_weights_in\(\)](#)

Examples

```
## Not run: bs_data |> bs_site_weights_out()
```

calculate_total_length
 Total length calculation for fork length

Description

Adds StatWeek to Dataframe

Usage

```
calculate_total_length(  
  .data,  
  fork_length_column = "fork_length",  
  size_class = TRUE,  
  minimum_size_limit_inches = 22  
)
```

Arguments

.data Dataframe
fork_length_column Column name of fork lengths provided
size_class Adds size class column (sublegal and legal)
minimum_size_limit_inches Size limit (total length) of fishery in inches

Examples

```
## Not run:  
df |> calculate_total_length()  
  
## End(Not run)
```

check_freshness	<i>Checks if data is current</i>
-----------------	----------------------------------

Description

Checks if data is current, if it is then updates, if not passes through

Usage

```
check_freshness(days = 3)
```

Arguments

days The number of days to check with the last update of the materialized views

Examples

```
## Not run:  
check_freshness()  
  
## End(Not run)
```

ds_bio_pull	<i>Pulls a biological information</i>
-------------	---------------------------------------

Description

Pulls lengths and cwts from dockside information

Usage

```
ds_bio_pull(  
  catch_area,  
  start_date,  
  end_date,  
  int_dates = FALSE,  
  fill_zero = FALSE,  
  check_fresh = TRUE,  
  fresh = FALSE  
)
```

Arguments

catch_area	Valid catch area code
start_date	Start date of search
end_date	End date of
int_dates	Returns year, month, day integer columns instead of a date field
fill_zero	Fills NA's with zeros
check_fresh	Boolean. Checks whether data is current
fresh	Boolean. Ensures data is updated

See Also

Other Dockside Creel Surveys: [ds_encounters\(\)](#), [ds_filter_insample\(\)](#), [ds_filter_insample_aerial\(\)](#), [ds_filter_insample_murthy\(\)](#), [ds_historical_cpue_chart\(\)](#), [ds_pull_sampling_effort\(\)](#), [ds_releases_pull\(\)](#), [ds_salmon_summary\(\)](#), [ds_sampling_effort_sampler_summary\(\)](#), [ds_sampling_effort_summary\(\)](#), [identify_in_sample\(\)](#), [marine_pull\(\)](#)

Examples

```
## Not run: ds_bio_data <- ds_bio_pull('10', '2021-11-01', '2021-12-04')
## Not run: ds_bio_data <- ds_bio_pull(c('10', '09'), '2021-11-01', '2021-12-04')
```

ds_encounters	<i>Pulls the dockside encounters</i>
---------------	--------------------------------------

Description

Pulls Dockside Encounters

Usage

```
ds_encounters(
  catch_area,
  start_date,
  end_date,
  pretty = TRUE,
  bias_corrected = TRUE,
  minimum_size_limit_inches = 22
)
```

Arguments

catch_area	Valid catch area code
start_date	Start date of search
end_date	End date of search

pretty If TRUE will return a summarized dataframe, if FALSE will return a list to be used in other calculations

bias_corrected Will return proportions with bias correction

minimum_size_limit_inches
 Minimum size limit for fishery

See Also

Other Dockside Creel Surveys: [ds_bio_pull\(\)](#), [ds_filter_insample\(\)](#), [ds_filter_insample_aerial\(\)](#), [ds_filter_insample_murthy\(\)](#), [ds_historical_cpue_chart\(\)](#), [ds_pull_sampling_effort\(\)](#), [ds_releases_pull\(\)](#), [ds_salmon_summary\(\)](#), [ds_sampling_effort_sampler_summary\(\)](#), [ds_sampling_effort_summary\(\)](#), [identify_in_sample\(\)](#), [marine_pull\(\)](#)

Examples

```
## Not run: dockside_encounters <- ds_encounters('10', '2021-11-01', '2021-12-04')
```

ds_filter_insample *In-Sample filter*

Description

Filters to in sample locations with study design input

Usage

```
ds_filter_insample(.data, design = c("murthy", "aerial"))
```

Arguments

.data Dataframe

design Either murthy or aerial

See Also

Other Dockside Creel Surveys: [ds_bio_pull\(\)](#), [ds_encounters\(\)](#), [ds_filter_insample_aerial\(\)](#), [ds_filter_insample_murthy\(\)](#), [ds_historical_cpue_chart\(\)](#), [ds_pull_sampling_effort\(\)](#), [ds_releases_pull\(\)](#), [ds_salmon_summary\(\)](#), [ds_sampling_effort_sampler_summary\(\)](#), [ds_sampling_effort_summary\(\)](#), [identify_in_sample\(\)](#), [marine_pull\(\)](#)

Examples

```
## Not run: df |> ds_filter_insample(design = 'murthy')
```

ds_filter_insample_aerial
In-Sample filter (Aerial)

Description

Filters to in sample locations with a Aerial study design

Usage

```
ds_filter_insample_aerial(.data)
```

Arguments

.data Dataframe

See Also

Other Dockside Creel Surveys: [ds_bio_pull\(\)](#), [ds_encounters\(\)](#), [ds_filter_insample\(\)](#), [ds_filter_insample_murthy\(\)](#), [ds_historical_cpue_chart\(\)](#), [ds_pull_sampling_effort\(\)](#), [ds_releases_pull\(\)](#), [ds_salmon_summary\(\)](#), [ds_sampling_effort_sampler_summary\(\)](#), [ds_sampling_effort_summary\(\)](#), [identify_in_sample\(\)](#), [marine_pull\(\)](#)

Examples

```
## Not run: df |> ds_filter_insample_aerial()
```

ds_filter_insample_murthy
In-Sample filter (Murthy)

Description

Filters to in sample locations with a Murthy study design

Usage

```
ds_filter_insample_murthy(.data)
```

Arguments

.data Dataframe

See Also

Other Dockside Creel Surveys: [ds_bio_pull\(\)](#), [ds_encounters\(\)](#), [ds_filter_insample\(\)](#), [ds_filter_insample_aeri](#), [ds_historical_cpue_chart\(\)](#), [ds_pull_sampling_effort\(\)](#), [ds_releases_pull\(\)](#), [ds_salmon_summary\(\)](#), [ds_sampling_effort_sampler_summary\(\)](#), [ds_sampling_effort_summary\(\)](#), [identify_in_sample\(\)](#), [marine_pull\(\)](#)

Examples

```
## Not run: df |> ds_filter_insample_murthy()
```

```
ds_historical_cpue_chart
```

Makes a chart comparing current year CPUE vs previous years

Description

Makes a chart comparing current year CPUE vs previous years

Usage

```
ds_historical_cpue_chart(
  catch_area,
  start_date,
  end_date,
  species = c("chinook", "coho", "pink"),
  smoothing_method = "loess",
  clipped_only = T
)
```

Arguments

catch_area	Valid catch area code
start_date	Start date of search
end_date	End date of search
species	Species to look for - chinook, pink, coho
smoothing_method	Default loess. Takes method arguments from geom_smooth
clipped_only	Will use only ad clipped fish

See Also

Other Dockside Creel Surveys: [ds_bio_pull\(\)](#), [ds_encounters\(\)](#), [ds_filter_insample\(\)](#), [ds_filter_insample_aeri](#), [ds_filter_insample_murthy\(\)](#), [ds_pull_sampling_effort\(\)](#), [ds_releases_pull\(\)](#), [ds_salmon_summary\(\)](#), [ds_sampling_effort_sampler_summary\(\)](#), [ds_sampling_effort_summary\(\)](#), [identify_in_sample\(\)](#), [marine_pull\(\)](#)

Examples

```
## Not run: ds_historical_cpue_chart('10', '2021-11-01', '2021-12-04')
## Not run: ds_historical_cpue_chart('10', '2021-11-01', '2021-12-04') + ggtitle('New Title')
```

```
ds_pull_sampling_effort
  Get sampling effort data
```

Description

Gets effort data for our dockside sampling

Usage

```
ds_pull_sampling_effort(marine_area, start_date, end_date)
```

Arguments

marine_area	Valid marine area code
start_date	Start date of search
end_date	End date of search

See Also

Other Dockside Creel Surveys: [ds_bio_pull\(\)](#), [ds_encounters\(\)](#), [ds_filter_insample\(\)](#), [ds_filter_insample_aeri](#), [ds_filter_insample_murthy\(\)](#), [ds_historical_cpue_chart\(\)](#), [ds_releases_pull\(\)](#), [ds_salmon_summary\(\)](#), [ds_sampling_effort_sampler_summary\(\)](#), [ds_sampling_effort_summary\(\)](#), [identify_in_sample\(\)](#), [marine_pull\(\)](#)

Examples

```
## Not run: df <- ds_pull_sampling_effort('10', '2021-01-01', '2021-12-31')
```

```
ds_releases_pull      Pulls release information for chinook and coho with legal size status
```

Description

Pulls release information for chinook and coho with legal size status

Usage

```
ds_releases_pull(  
  catch_area,  
  start_date,  
  end_date,  
  int_dates = FALSE,  
  fill_zero = FALSE,  
  check_fresh = TRUE,  
  fresh = FALSE  
)
```

Arguments

catch_area	Valid catch area code
start_date	Start date of search
end_date	End date of search
int_dates	Returns year, month, day integer columns instead of a date field
fill_zero	Boolean. Fills NA's with zeros.
check_fresh	Boolean. Checks whether data is current
fresh	Boolean. Ensures data is updated

See Also

Other Dockside Creel Surveys: [ds_bio_pull\(\)](#), [ds_encounters\(\)](#), [ds_filter_insample\(\)](#), [ds_filter_insample_aeri](#), [ds_filter_insample_murthy\(\)](#), [ds_historical_cpue_chart\(\)](#), [ds_pull_sampling_effort\(\)](#), [ds_salmon_summary\(\)](#), [ds_sampling_effort_sampler_summary\(\)](#), [ds_sampling_effort_summary\(\)](#), [identify_in_sample\(\)](#), [marine_pull\(\)](#)

Examples

```
## Not run: ds_rel_data <- ds_releases_pull('10', '2021-11-01', '2021-12-04')  
## Not run: ds_rel_data <- ds_releases_pull(c('10', '09'), '2021-11-01', '2021-12-04')
```

ds_salmon_summary	<i>Downloads test fishing data from pssp</i>
-------------------	--

Description

Queries RMIS for release information, defaults to tagged releases

Usage

```
ds_salmon_summary(
  catch_area,
  start_date,
  end_date,
  int_dates = FALSE,
  fill_zero = FALSE,
  fresh = FALSE,
  check_fresh = TRUE,
  dsn = "pssp_prod64"
)
```

Arguments

catch_area	Valid catch area code
start_date	Start date of search
end_date	End date of search
int_dates	Returns year, month, day integer columns instead of a date field
fill_zero	Fill NA's with zeros.
fresh	Boolean. Ensures data is updated
check_fresh	Boolean. Checks whether data is current
dsn	DSN for the database connection. Default 'pssp_prod64'

See Also

Other Dockside Creel Surveys: [ds_bio_pull\(\)](#), [ds_encounters\(\)](#), [ds_filter_insample\(\)](#), [ds_filter_insample_aeri](#), [ds_filter_insample_murthy\(\)](#), [ds_historical_cpue_chart\(\)](#), [ds_pull_sampling_effort\(\)](#), [ds_releases_pull\(\)](#), [ds_sampling_effort_sampler_summary\(\)](#), [ds_sampling_effort_summary\(\)](#), [identify_in_sample\(\)](#), [marine_pull\(\)](#)

Examples

```
## Not run: ds_data <- ds_salmon_summary('10', '2021-11-01', '2021-12-04')
## Not run: ds_data <- ds_salmon_summary(c('11','10'), '2021-11-01', '2021-12-04')
```

ds_sampling_effort_sampler_summary

Sampling effort summary with added sampler

Description

Gets effort data and summarizes by survey trips and survey hours by sampler

Usage

```
ds_sampling_effort_sampler_summary(marine_area, start_date, end_date)
```


Arguments

marine_area	Valid marine area code
start_date	Start date of search
end_date	End date of search

See Also

Other Dockside Creel Surveys: [ds_bio_pull\(\)](#), [ds_encounters\(\)](#), [ds_filter_insample\(\)](#), [ds_filter_insample_aeri](#), [ds_filter_insample_murthy\(\)](#), [ds_historical_cpue_chart\(\)](#), [ds_pull_sampling_effort\(\)](#), [ds_releases_pull\(\)](#), [ds_salmon_summary\(\)](#), [ds_sampling_effort_summary\(\)](#), [identify_in_sample\(\)](#), [marine_pull\(\)](#)

Examples

```
## Not run: df <- ds_sampling_effort_sampler_summary('10', '2021-01-01', '2021-12-31')
```

```
ds_sampling_effort_summary  
      Sampling effort summary
```

Description

Gets effort data and summarizes by survey trips and survey hours

Usage

```
ds_sampling_effort_summary(marine_area, start_date, end_date)
```

Arguments

marine_area	Valid marine area code
start_date	Start date of search
end_date	End date of search

See Also

Other Dockside Creel Surveys: [ds_bio_pull\(\)](#), [ds_encounters\(\)](#), [ds_filter_insample\(\)](#), [ds_filter_insample_aeri](#), [ds_filter_insample_murthy\(\)](#), [ds_historical_cpue_chart\(\)](#), [ds_pull_sampling_effort\(\)](#), [ds_releases_pull\(\)](#), [ds_salmon_summary\(\)](#), [ds_sampling_effort_sampler_summary\(\)](#), [identify_in_sample\(\)](#), [marine_pull\(\)](#)

Examples

```
## Not run: df <- ds_sampling_effort_summary('10', '2021-01-01', '2021-12-31')
```

identify_in_sample	<i>In-Sample identifier</i>
--------------------	-----------------------------

Description

Identifys in-sample locations by adding in_sampling column

Usage

```
identify_in_sample(  
  .data,  
  location_code_column = "location_code",  
  design = c("murthy", "aerial"),  
  named = FALSE  
)
```

Arguments

.data	Dataframe
location_code_column	The column in dataframe where the location codes are.
design	Either murthy or aerial
named	Boolean. Returns a column of in/out of sample.

See Also

Other Dockside Creel Surveys: [ds_bio_pull\(\)](#), [ds_encounters\(\)](#), [ds_filter_insample\(\)](#), [ds_filter_insample_aerial\(\)](#), [ds_filter_insample_murthy\(\)](#), [ds_historical_cpue_chart\(\)](#), [ds_pull_sampling_effort\(\)](#), [ds_releases_pull\(\)](#), [ds_salmon_summary\(\)](#), [ds_sampling_effort_sampler_summary\(\)](#), [ds_sampling_effort_summary\(\)](#), [marine_pull\(\)](#)

Examples

```
## Not run: df |> identify_in_sample(design = 'murthy')
```

management_week	<i>Vectorized approach to calculating the management week, returns an integer</i>
-----------------	---

Description

Vectorized approach to calculating the management week, returns an integer

Usage

```
management_week(date)
```

Arguments

date A column with dates

Examples

```
## Not run:
data_frame |>
  mutate(mngmt_week = management_week(date_field))

## End(Not run)
```

marine_pull	<i>Pulls non-salmon related data</i>
-------------	--------------------------------------

Description

Queries dockside information from pssp_dev

Usage

```
marine_pull(
  catch_area,
  start_date,
  end_date,
  int_dates = FALSE,
  fill_zero = FALSE,
  fresh = FALSE,
  check_fresh = TRUE
)
```

Arguments

catch_area Valid catch area code
start_date Start date of search
end_date End date of search
int_dates Returns year, month, day integer columns instead of a date field
fill_zero Fill NA's with zeros.
fresh Boolean. Ensures data is updated
check_fresh Boolean. Checks whether data is current

See Also

Other Dockside Creel Surveys: [ds_bio_pull\(\)](#), [ds_encounters\(\)](#), [ds_filter_insample\(\)](#), [ds_filter_insample_aeri](#), [ds_filter_insample_murthy\(\)](#), [ds_historical_cpue_chart\(\)](#), [ds_pull_sampling_effort\(\)](#), [ds_releases_pull\(\)](#), [ds_salmon_summary\(\)](#), [ds_sampling_effort_sampler_summary\(\)](#), [ds_sampling_effort_summ](#), [identify_in_sample\(\)](#)

Examples

```
## Not run: marine_pull <- marine_pull('10', '2021-11-01', '2021-12-04')
## Not run: marine_pull <- marine_pull(c('10', '09'), '2021-11-01', '2021-12-04')
```

pssp_last_update *Gets the last time materialized views we updated*

Description

Gets the last time materialized views were updated

Usage

```
pssp_last_update(dsn = "pssp_prod64")
```

Arguments

dsn DSN connection default "pssp_prod64"

Examples

```
## Not run:
pssp_last_update()

## End(Not run)
```

pssp_query *Queries the pssp database*

Description

Queries the pssp database and returns a tibble

Usage

```
pssp_query(query, dsn = "pssp_prod64")
```

Arguments

query SQL Query
dsn DSN connection default "pssp_prod64"

Examples

```
## Not run:
data <- pssp_query("SELECT * FROM survey LIMIT 10;")

## End(Not run)
```

pssp_refresh_data	<i>Refreshes datasources</i>
-------------------	------------------------------

Description

Refreshes all materialized views

Usage

```
pssp_refresh_data(dsn = "pssp_prod64")
```

Arguments

dsn	DSN connection default "pssp_prod64"
-----	--------------------------------------

Examples

```
## Not run:  
pssp_refresh_data()  
  
## End(Not run)
```

statistical_week	<i>Vectorized approach to calculating the statistical week, returns an integer</i>
------------------	--

Description

Statistical weeks start on Mondays, so the first statistical week of the year starts on the first Monday of the year. (Contrast with management weeks which start on Sundays).

Usage

```
statistical_week(date)
```

Arguments

date	A vector of dates
------	-------------------

Examples

```
## Not run:  
data_frame |>  
  mutate(stat_week = statistical_week(date_field))  
  
## End(Not run)
```

tf_cv	<i>CV of Legal Marked Category</i>
-------	------------------------------------

Description

Coefficient of legal mark category

Usage

```
tf_cv(.data, category = "Legal_AD")
```

Arguments

.data	Dataframe
category	Legal mark category (LM Default)

See Also

Other Test Fishing: [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run:
tf_data |> tf_cv(Legal_AD)

## End(Not run)
```

tf_descriptive_length	<i>Descriptive statistics of lengths</i>
-----------------------	--

Description

Mean, sum, and count of lengths by adipose clip

Usage

```
tf_descriptive_length(.data, length_type = "total_length")
```

Arguments

.data	Dataframe
length_type	total_length or fork_length

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run:  
tf_data |> tf_descriptive_length(total_length)  
  
## End(Not run)
```

```
tf_effort_summary_week  
Test Fishing Weekly Effort
```

Description

Produces a table of weekly effort in surveys and hours

Usage

```
tf_effort_summary_week(.data, date_column)
```

Arguments

<code>.data</code>	Dataframe
<code>date_column</code>	Column to calculate stat week, usually <code>survey_datetime</code>

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run: tf_data |> tf_effort_summary_week()
```

tf_hist	<i>Test fishing length histogram</i>
---------	--------------------------------------

Description

Identifies agency based on sampler name

Usage

```
tf_hist(  
  .data,  
  x_axis,  
  x_label = "Total Length (CM)",  
  y_label = "Count",  
  title = "Chinook Test Fishing Lengths"  
)
```

Arguments

.data	Dataframe
x_axis	Length column. total_length or fork_length
x_label	Label of x axis
y_label	Label of y axis
title	Title of plot

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run:  
tf_data |> tf_hist(total_length)  
  
## End(Not run)
```

tf_interagency_chisq *Interagency Fisher / Chi Square Test*

Description

Fisher / Chi Square test between agencies and legal mark counts

Usage

```
tf_interagency_chisq(.data, significance = 0.05)
```

Arguments

.data	Dataframe
significance	Significance threshold default .05

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run: tf_data |> tf_interagency_chisq()
```

tf_interagency_histogram
Histogram comparison between agencies by length

Description

Histogram

Usage

```
tf_interagency_histogram(  
  .data,  
  x_axis,  
  x_label = "Total Length (CM)",  
  y_label = "Count",  
  title = "Interagency Lengths"  
)
```

Arguments

.data	Dataframe
x_axis	Length column. total_length or fork_length
x_label	Label of x axis
y_label	Label of y axis
title	Title of plot

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run: tf_data |> tf_interagency_histogram(total_length, agency)
```

```
tf_interagency_lm_summary
      Iteragency legal mark summary
```

Description

Summary of encounters by agency and legal mark category

Usage

```
tf_interagency_lm_summary(.data, percent = FALSE)
```

Arguments

.data	Dataframe
percent	Boolean. Results will be displayed in terms of percentage

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run: tf_data |> tf_interagency_lm_summary()
```

tf_interagency_summary
Interagency summary

Description

Summary of effort and encounters by agency

Usage

```
tf_interagency_summary(.data)
```

Arguments

.data Dataframe

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run:  
tf_data |> tf_interagency_summary()  
  
## End(Not run)
```

tf_lm_summary *Summarize by Legal Mark category*

Description

Creates a summary data with counts by legal mark category

Usage

```
tf_lm_summary(.data, size_limit = 22)
```

Arguments

.data Dataframe
size_limit Size limit in inches to be used to find legality. Default 22 inches

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run:
tf_data |> tf_lm_summary()

## End(Not run)
```

tf_lm_summary_week	<i>Test Fishing Weekly encounters</i>
--------------------	---------------------------------------

Description

Produces a table of weekly encounters by legal mark category

Usage

```
tf_lm_summary_week(.data, date_column)
```

Arguments

.data	Dataframe
date_column	Column to calculate stat week, usually survey_datetime

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run: tf_data |> tf_lm_summary_week()
```

tf_map	<i>Map of test fishing encounters</i>
--------	---------------------------------------

Description

This produces a leaflet map showing test fishing encounters

Usage

```
tf_map(.data, ...)
```

Arguments

.data	Dataframe
...	add_effort = TRUE, Adds a heat map of boat surveys. start_date, end_date and catch_area must also be supplied

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run: tf_data |> tf_map()
```

tf_mortality	<i>Mortality ratio</i>
--------------	------------------------

Description

Produces a graph

Usage

```
tf_mortality(.data)
```

Arguments

.data	Dataframe
-------	-----------

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run:
tf_data |> tf_interagency_lm_summary()

## End(Not run)
```

 tf_pull

Downloads test fishing data from pssp

Description

Queries pssp for test fishing encounters

Usage

```
tf_pull(
  catch_area,
  start_date,
  end_date,
  fresh = FALSE,
  check_fresh = TRUE,
  dsn = "pssp_prod64"
)
```

Arguments

catch_area	Valid catch area code
start_date	Start date of search
end_date	End date of search
fresh	Boolean. Ensures data is updated
check_fresh	Boolean. Checks whether data is current
dsn	DSN for the database connection. Default 'pssp_prod64'

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run:
tf_data <- tf_pull("10", "2021-11-01", "2021-12-04")

## End(Not run)
```

tf_pvalue_history	<i>Line plot of p-values from Chi-square</i>
-------------------	--

Description

Line plot of cumulative p-values yielded from cumulative totals of test fishing encounters

Usage

```
tf_pvalue_history(.data, alpha = 0.05)
```

Arguments

.data	Dataframe
alpha	Significance metric to evaluate whether statistically significant or not

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_scatter\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run: tf_data |> tf_pvalue_history()
```

tf_scatter	<i>Creates a ggplot scatter plot of test fishing lengths by adipose clip</i>
------------	--

Description

Queries RMIS for release information, defaults to tagged releases

Usage

```
tf_scatter(
  .data,
  x_axis,
  y_axis,
  x_label = "Survey Date",
  y_label = "Total Length (CM)",
  title = "Chinook Test Fishing Lengths"
)
```

Arguments

.data	Dataframe
x_axis	Variable for x axis of plot
y_axis	Variable for y axis of plot
x_label	Label of x axis
y_label	Label of y axis
title	Title of plot

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_summary\(\)](#)

Examples

```
## Not run:
tf_data |> tf_scatter(survey_datetime, total_length)

## End(Not run)
```

 tf_summary

Test Fishing Weekly Summary

Description

Produces a table summarizing test fishing effort and encounters

Usage

```
tf_summary(.data, date_column)
```


Arguments

.data	Dataframe
date_column	Column to calculate stat week, usually survey_datetime

See Also

Other Test Fishing: [tf_cv\(\)](#), [tf_descriptive_length\(\)](#), [tf_effort_summary_week\(\)](#), [tf_hist\(\)](#), [tf_interagency_chisq\(\)](#), [tf_interagency_histogram\(\)](#), [tf_interagency_lm_summary\(\)](#), [tf_interagency_summary\(\)](#), [tf_lm_summary\(\)](#), [tf_lm_summary_week\(\)](#), [tf_map\(\)](#), [tf_mortality\(\)](#), [tf_pull\(\)](#), [tf_pvalue_history\(\)](#), [tf_scatter\(\)](#)

Examples

```
## Not run: tf_data |> tf_summary()
```

vtr_pull	<i>Downloads VTR data from pssp</i>
----------	-------------------------------------

Description

Queries RMIS for release information, defaults to tagged releases

Usage

```
vtr_pull(
  catch_area,
  start_date,
  end_date,
  pretty = TRUE,
  fresh = FALSE,
  check_fresh = TRUE
)
```

Arguments

catch_area	Valid catch area code
start_date	Start date of search
end_date	End date of search
pretty	Returns an easily readable dataframe
fresh	Boolean. Ensures data is updated
check_fresh	Boolean. Checks whether data is current

Value

Dataframe

Examples

```
## Not run: vtr_data <- vtr_pull('10', '2021-11-01', '2021-12-04')
```

Index

- * **Aerial Effort Surveys**
 - [aerial_estimator](#), 3
 - [aerial_estimator_stats](#), 4
 - [aerial_pull](#), 4
 - * **Boat Effort Surveys**
 - [bs_map](#), 5
 - [bs_pull](#), 6
 - [bs_site_weights](#), 6
 - [bs_site_weights_in](#), 7
 - [bs_site_weights_out](#), 8
 - * **Dockside Creel Surveys**
 - [ds_bio_pull](#), 9
 - [ds_encounters](#), 10
 - [ds_filter_insample](#), 11
 - [ds_filter_insample_aerial](#), 12
 - [ds_filter_insample_murthy](#), 12
 - [ds_historical_cpue_chart](#), 13
 - [ds_pull_sampling_effort](#), 14
 - [ds_releases_pull](#), 14
 - [ds_salmon_summary](#), 15
 - [ds_sampling_effort_sampler_summary](#), 16
 - [ds_sampling_effort_summary](#), 17
 - [identify_in_sample](#), 18
 - [marine_pull](#), 19
 - * **Test Fishing**
 - [tf_cv](#), 22
 - [tf_descriptive_length](#), 22
 - [tf_effort_summary_week](#), 23
 - [tf_hist](#), 24
 - [tf_interagency_chisq](#), 25
 - [tf_interagency_histogram](#), 25
 - [tf_interagency_lm_summary](#), 26
 - [tf_interagency_summary](#), 27
 - [tf_lm_summary](#), 27
 - [tf_lm_summary_week](#), 28
 - [tf_map](#), 29
 - [tf_mortality](#), 29
 - [tf_pull](#), 30
 - [tf_pvalue_history](#), 31
 - [tf_scatter](#), 31
 - [tf_summary](#), 32
 - * **Voluntary Trip Reports**
 - [vtr_pull](#), 33
-
- [add_time_steps](#), 2
 - [aerial_estimator](#), 3, 4, 5
 - [aerial_estimator_stats](#), 3, 4, 5
 - [aerial_pull](#), 3, 4, 4

 - [bs_map](#), 5, 6–8
 - [bs_pull](#), 5, 6, 7, 8
 - [bs_site_weights](#), 5, 6, 6, 7, 8
 - [bs_site_weights_in](#), 5–7, 7, 8
 - [bs_site_weights_out](#), 5–7, 8

 - [calculate_total_length](#), 8
 - [check_freshness](#), 9

 - [ds_bio_pull](#), 9, 11–19
 - [ds_encounters](#), 10, 10, 11–19
 - [ds_filter_insample](#), 10, 11, 11, 12–19
 - [ds_filter_insample_aerial](#), 10, 11, 12, 13–19
 - [ds_filter_insample_murthy](#), 10–12, 12, 13–19
 - [ds_historical_cpue_chart](#), 10–13, 13, 14–19
 - [ds_pull_sampling_effort](#), 10–13, 14, 15–19
 - [ds_releases_pull](#), 10–14, 14, 16–19
 - [ds_salmon_summary](#), 10–15, 15, 17–19
 - [ds_sampling_effort_sampler_summary](#), 10–16, 16, 17–19
 - [ds_sampling_effort_summary](#), 10–17, 17, 18, 19

 - [identify_in_sample](#), 10–17, 18, 19

 - [management_week](#), 18

marine_pull, [10–18](#), [19](#)

pssp_last_update, [20](#)
pssp_query, [20](#)
pssp_refresh_data, [21](#)

statistical_week, [21](#)

tf_cv, [22](#), [23–33](#)
tf_descriptive_length, [22](#), [22](#), [23–33](#)
tf_effort_summary_week, [22](#), [23](#), [23](#), [24–33](#)
tf_hist, [22](#), [23](#), [24](#), [25–33](#)
tf_interagency_chisq, [22–24](#), [25](#), [26–33](#)
tf_interagency_histogram, [22–25](#), [25](#),
[26–33](#)
tf_interagency_lm_summary, [22–26](#), [26](#),
[27–33](#)
tf_interagency_summary, [22–26](#), [27](#), [28–33](#)
tf_lm_summary, [22–27](#), [27](#), [28–33](#)
tf_lm_summary_week, [22–28](#), [28](#), [29–33](#)
tf_map, [22–28](#), [29](#), [30–33](#)
tf_mortality, [22–29](#), [29](#), [30–33](#)
tf_pull, [22–30](#), [30](#), [31–33](#)
tf_pvalue_history, [22–30](#), [31](#), [32](#), [33](#)
tf_scatter, [22–31](#), [31](#), [33](#)
tf_summary, [22–32](#), [32](#)

vtr_pull, [33](#)