

Package: framrosetta (via r-universe)

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Type Package

Title FRAM LUTs and mappings

Version 0.2.0

Description Look-up tables and convenience functions for working with
FRAM tables.

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Imports cli, dplyr, rlang

URL <https://framverse.github.io/framrosetta/>

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

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Contents

bk_lookup_chin	2
bk_lookupfun_chin	3
fishery_chinook_fram	3
fishery_coho_fram	4
fishery_coho_psc	5
fishery_search	5

label_fisheries	6
label_stocks	7
limiting_stock_coho	7
rmis_fram	8
stock_chinook_fram	9
stock_coho_fram	9
stock_coho_psc	10
timestep_chinook_fram	11
timestep_coho_fram	11
tocas_fram	12
waft_fram	13
Index	14

bk_lookup_chin	<i>Lookup table for Chinook stock IDs from BkFRAM to normal FRAM</i>
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Description

This table is based on Chinook stock tables from pre-season 2024. Additional stock may be added in the future (splitting out stock aggregates). The ‘bk_lookupfun_chin()’ function accommodates this.

Usage

bk_lookup_chin

Format

A data frame with 116 rows and 3 columns:

- stock_name_bk** Stock name
- bk_stock_id** Stock ID in the BackwardsFRAM table
- stock_id** Stock ID anywhere else in FRAM and TAMM

Source

2024 Pre-Season Chinook DB.mdb

bk_lookupfun_chin	<i>Generate Chinook bk_fram look-up table</i>
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Description

At present the FRAM databases use a different stock_id numbering system in the Backwards-FRAM table than everywhere else. The dataframe 'bk_lookup_chin' provides a lookup table based on the stocks used in Preseason 2024. However, we are working to modify FRAM to support splitting Chinook stock aggregates, which will lead to increased numbers of StockIDs. 'bk_lookupfun_chin' provides an appropriate lookup table based on the 'max_stock' argument, either returning 'bk_lookup_chin' (if max_stock is not provided or doesn't exceed the stocks in 'bk_lookup_chin') or extending the dataframe with new stock ids based on the numbering conventions of the bk_stock_id.

Usage

```
bk_lookupfun_chin(max_stock = NA)
```

Arguments

max_stock	Positive integer representing the largest *Normal* stock id (stock ids outside of the BackwardsFram table). As of Preseason 2024, there are 78 stocks; splitting stocks might increase this (e.g. 80, 82, 84). Defaults to NA.
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Value

Tibble of lookup table. '\$stock_name_bk' gives human-readable stock names; '\$bk_stock_id' gives the "StockID" used in backwards FRAM; '\$stock_id' gives the StockID used everywhere else. NAs in '\$stock_id' correspond to "totalled" stocks, which are used in backwards FRAM and nowhere else.

Examples

```
temp = bk_lookupfun_chin(80)
tail(temp)
```

fishery_chinook_fram	<i>Chinook fishery information</i>
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Description

Mapping of fishery_id to fishery name for Chinook salmon, taken from the 'Fishery' table of the Chinook FRAM database.

Usage

```
fishery_chinook_fram
```

Format

A data frame with 74 rows and 5 columns:

- species** Species name
- version_number**
- fishery_id** Chinook fishery id number in FRAM
- fishery_name** Chinook fishery name in FRAM
- fishery_title** consistent and more human readable version of ‘fishery_name‘

Source

2024 Pre-Season Chinook DB.mdb

fishery_coho_fram	<i>Coho fishery information</i>
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Description

Mapping of fishery_id to fishery name for Coho salmon, taken from the ‘Fishery‘ table of the Coho FRAM database.

Usage

fishery_coho_fram

Format

A data frame with 198 rows and 5 columns:

- species** Species name
- version_number**
- fishery_id** Coho fishery id number in FRAM
- fishery_name** Coho fishery name in FRAM
- fishery_title** consistent and more human readable version of ‘fishery_name‘

Source

2024NOF_CohoFRAMdatabase_distribution.mdb

fishery_coho_psc	<i>Coho fishery information (PSC)</i>
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Description

Mapping of FRAM fishery_id to PSC fishery ID and name for Coho salmon, based on the Annual-Report R package.

Usage

```
fishery_coho_psc
```

Format

A data frame with 197 rows and 5 columns:

species Species name

fram_fishery_id Fishery ID in FRAM

psc_fishery_id Corresponding ID for the psc fishery

psc_group_code

psc_fishery_name Name of PSC fishery ID for the psc fishery

psc_fishery_order

Source

<https://github.com/PSC-CoTC/AnnualReport>

fishery_search	<i>Search through fishery and stock lookup tables.</i>
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Description

Search through fishery and stock lookup tables.

Usage

```
fishery_search(pattern, species)
```

```
stock_search(pattern, species)
```

Arguments

pattern Character string of pattern to search for, case insensitive. If numeric instead, function will return the row with the corresponding stock or fishery ID.

species "CHINOOK" or "COHO" (or lowercase permutations)

Examples

```
fishery_search("kmz", "COHO")
fishery_search(50, "COHO")
stock_search("nooksack", "CHINOOK")
stock_search(21, "CHINOOK")
```

label_fisheries	Add 'fishery_label' column to describe fisheries of dataframe
-----------------	---

Description

Streamlined version of using 'left_join', 'rename', and 'relocate' to add human-readable text to a dataframe with fishery_id or similar columns. Automatically detects species and 'fishery_id' column; user can specify species or alternative name for fishery_id column if needed.

Usage

```
label_fisheries(.data, species = NULL, fisheries_col = "fishery_id")
```

Arguments

.data	Dataframe containing 'fishery_id' column (or analogous column with different name specied by 'fisheries_col' argument)
species	character atomic identifying either "CHINOOK" or "COHO" (or variations of those). Defaults to 'NULL'; only needed if '.data' does not have species defined as an attribute. Tables read from a fram database using 'framrsquared' package automatically have appropriate species attribute.
fisheries_col	character atomic identifying the column treated as containing fishery_id values Defaults to 'fishery_id'.

Value

Data frame with additional column 'fishery_label'

Examples

```
## create example data
dat = data.frame(fishery_id = sample(1:73, size = 10, replace = TRUE))
## Add fishery label
dat |> label_fisheries(species = "CHINOOK")
```

label_stocks	Add 'stock_label' column to describe fisheries of dataframe
--------------	---

Description

Streamlined version of using 'left_join', 'rename', and 'relocate' to add human-readable text to a dataframe with stock_id or similar columns. Automatically detects species and 'stock_id' column; user can specify species or alternative name for stock_d column if needed.

Usage

```
label_stocks(.data, species = NULL, stocks_col = "stock_id")
```

Arguments

.data	Dataframe containing 'stock_id' column (or analogous column with different name specied by 'stocks_col' argument)
species	character atomic identifying either "CHINOOK" or "COHO" (or variations of those). Defaults to 'NULL'; only needed if '.data' does not have species defined as an attribute. Tables read from a fram database using 'framrsquared' package automatically have appropriate species attribute.
stocks_col	character atomic identifying the column treated as containing stock_id values Defaults to 'stock_id'.

Value

Data frame with additional column 'stock_label'

Examples

```
## create example data
dat = data.frame(stock_id = sample(1:73, size = 10, replace = TRUE))
## Add stock information
dat |> label_stocks(species = "CHINOOK")
```

limiting_stock_coho	Coho limiting stock
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Description

Maps between the limiting stock of the Coho TAMM (e.g., 'Hood Canal Wild') and FRAM stock ids. Useful for summarizing impacts on stocks of concern.

Usage

limiting_stock_coho

Format

A tibble with 10 rows and 2 columns:

name Name of the limiting stock

name_tamm Exact match of limiting stock name in the TAMM

stock_id_vec a list of numeric vectors, each containing all fram stock_id values for that TAMM limiting stock

#' @source 2024 Pre-Season Chinook DB.mdb

rmis_fram	<i>Lookup table for FRAM to RMIS recoveries</i>
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Description

For more about the Regional Mark Information System (RMIS), see <https://www.rmipc.org/>.

Usage

rmis_fram

Format

'rmis_fram' A data frame with 225,390 rows and 4 columns:

psc_code RMIS PSC Recovery Location

gear Gear Code

fishery_id FRAM fishery ID

fishery_name FRAM fishery name

Source

<https://github.com/FRAMverse/framr/blob/master/xlsx/lu_coho.xlsx

stock_chinook_fram	<i>Chinook stock information</i>
--------------------	----------------------------------

Description

Mapping of stock_id to stock name for Chinook salmon, taken from the ‘Stock‘ table of the Chinook FRAM database.

Usage

stock_chinook_fram

Format

A data frame with 78 rows and 7 columns:

- species** Species name
- stock_version**
- stock_id** Chinook stock id number in FRAM
- production_region_number**
- management_unit_number**
- stock_name** Chinook stock name in FRAM
- stock_long_name** ‘stock_name‘ but more human readable

Source

2024 Pre-Season Chinook DB.mdb

stock_coho_fram	<i>Coho stock information</i>
-----------------	-------------------------------

Description

Mapping of FRAM stock_id to FRAM stock name for Coho salmon, taken from the ‘Stock‘ table of the Coho FRAM database.

Usage

stock_coho_fram

Format

A data frame with 78 rows and 7 columns:

species Species name

stock_version

stock_id Coho stock id number in FRAM

production_region_number

management_unit_number

stock_name Coho stock name in FRAM

stock_long_name 'stock_name' but more human readable

limiting_stock_name Identifier for which of the limiting stock names of the Coho TAMM (sheet '2') this stock contributes to, if any. #

limiting_stock_name_tamm As 'limiting_stock_name', but exact match to name in TAMM.

Source

2024NOF_CohoFRAMdatabase_distribution.mdb

stock_coho_psc	<i>Coho stock information (PSC)</i>
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Description

Mapping of FRAM stock_id to PSC stock id and psc stock names, based on the AnnualReport R package.

Usage

stock_coho_psc

Format

A data frame with 41 rows and 4 columns:

species Species name

fram_stock_id Coho stock id number in FRAM

psc_stock_id Corresponding PSC stock ID

psc_stock_name PSC stock name

Source

<https://github.com/PSC-CoTC/AnnualReport>

timestep_chinook_fram	<i>Chinook timestep information stock information</i>
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Description

Mapping of timestep numbers to dates in the year, taken from the ‘TimeStep’ table of the Chinook FRAM database

Usage

timestep_chinook_fram

Format

A data frame with 4 rows and 5 columns:

- species** Species name
- version_number**
- time_step_id** id number for the time step
- time_step_name** Span of each timestep. Timesteps start on the first of the month, and end on the last of the month. Note that ‘Oct-Apr-2’ is highlighting that timestep 4 runs from October of the current year to April of the NEXT year (equivalent to timestep 1 of the following year).
- time_step_title** ‘time_step_name’, but months are written out

Source

2024 Pre-Season Chinook DB.mdb

timestep_coho_fram	<i>Coho timestep information stock information</i>
--------------------	--

Description

Mapping of timestep numbers to dates in the year, taken from the ‘TimeStep’ table of the Chinook FRAM database

Usage

timestep_coho_fram

Format

A data frame with 5 rows and 5 columns:

species Species name

version_number

time_step_id id number for the time step

time_step_name Span of each timestep. Timesteps start on the first of the month, and end on the last of the month.

time_step_title 'time_step_name', but months are written out consistently

Source

2024NOF_CohoFRAMdatabase_distribution.mdb

tocas_fram	<i>Lookup table for FRAM to TOCAS</i>
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Description

Lookup table for FRAM to TOCAS

Usage

tocas_fram

Format

'tocas_fram' A data frame with 10,462 rows and 6 columns:

fisher_type 1 = Non-Treaty / 2 = Treaty

gear Gear Code

disposition Disposition. "COMM" = Commercial, "C&SF" = Ceremonial and Subsistence fishing, "ORGN" = , "Test" and "TEST" = Test fishery (?), TKHM = ??

catch_area Catch area code, not zero-padded

fishery_id FRAM fishery ID

fishery_name FRAM fishery name

Source

<https://github.com/FRAMverse/framr/blob/master/xlsx/lu_coho.xlsx

waft_fram	<i>Lookup table for FRAM to WAFT</i>
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Description

Lookup table for FRAM to WAFT

Usage

waft_fram

Format

'waft_fram' A data frame with 10,462 rows and 6 columns:

fishery_type 1 = Non-Treaty / 2 = Treaty

gear Gear Code

disposition Disposition. "COMM" = Commercial, "C&SF" = Ceremonial and Subsistence fishing,
"ORGN" = , "Test" and "TEST" = Test fishery (?), TKHM = ??

catch_area Catch area code, zero-padded

fishery_id FRAM fishery ID

fishery_name FRAM fishery name

Source

<https://github.com/FRAMverse/framr/blob/master/xlsx/lu_coho.xlsx

Index

* datasets

- bk_lookup_chin, [2](#)
- fishery_chinook_fram, [3](#)
- fishery_coho_fram, [4](#)
- fishery_coho_psc, [5](#)
- limiting_stock_coho, [7](#)
- rmis_fram, [8](#)
- stock_chinook_fram, [9](#)
- stock_coho_fram, [9](#)
- stock_coho_psc, [10](#)
- timestep_chinook_fram, [11](#)
- timestep_coho_fram, [11](#)
- tocas_fram, [12](#)
- waft_fram, [13](#)

- bk_lookup_chin, [2](#)
- bk_lookupfun_chin, [3](#)

- fishery_chinook_fram, [3](#)
- fishery_coho_fram, [4](#)
- fishery_coho_psc, [5](#)
- fishery_search, [5](#)

- label_fisheries, [6](#)
- label_stocks, [7](#)
- limiting_stock_coho, [7](#)

- rmis_fram, [8](#)

- stock_chinook_fram, [9](#)
- stock_coho_fram, [9](#)
- stock_coho_psc, [10](#)
- stock_search (fishery_search), [5](#)

- timestep_chinook_fram, [11](#)
- timestep_coho_fram, [11](#)
- tocas_fram, [12](#)

- waft_fram, [13](#)