**Tier 1 Deep 7**

**Section 1: Procedures**

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Purpose:

This document outlines the procedures taken to replicate the DEEP7\_SEASON\_RPT

Folder structure:

* All scripts are held in the working directory
  + H > Programs > Ongoing > Economic Dashboard > DEEP\_7
  + Preliminary scripts – scripts needed to make intermediate tables
    - 01 – FRS\_DEEP7\_TRIP\_HEADERS\_V10.R
    - 02 – FRS\_DEEP7\_DETAIL\_V7.R
    - 03 – ID\_DEEP7\_SEASON\_SPECIES\_V6.R
    - 04 – FRS\_DEEP7\_CML\_SEASON\_SPECIES\_V11.R
  + Produced scripts – scripts needed to produce the final output table
    - 05a - TIER\_1\_DEEP7\_CML\_RPT\_V8.R
    - 05b - TIER\_1\_DEEP7\_SEASON\_RPT\_V11.R
* Data folder
  + Source data sets
    - FISHERY\_SEASON
    - FRS
    - FRS\_AREA
    - FRS\_SPECIES
    - DEALER
  + intermediate folder
    - This will hold the data sets produced throughout the program
  + final folder
    - This folder will hold the final data set

Procedure Steps:

* **Open** up the R Project (DEEP\_7.Rproj) located in the working directory
* To **run**, execute
  + Prelim scripts in order
  + 05a script
  + 05b script
* Notes
  + Specific notes can be found throughout the scripts by doing a Ctrl+F and searching for “sm edits” or “TODO”.
  + For each table, an outline of code is provided in the “Table Outline” Section of this document.

**Tier 1 Deep 7**

**Section 2: Table Outline**

**Table: TRIP HEADERS**

Produces the table FRS\_DEEP7\_TRIP\_HEADERS

Input tables

* WP\_HAWAII.H\_FRS
* LLDS\_FISHERY\_SEASONS
* WP\_HAWAII.H\_FRS\_AREA

Table # 1) Lines 88 – 103

* Input tables:
  + WP\_HAWAII.H\_FRS (label FRS)
  + WP\_HAWAII.H\_FRS\_AREA (label AR)
* This sub table is only used to filter the TRIP\_KEY in the ‘temp’ table

Table #2) Lines 31 – 103 (label ‘temp’)

* Input tables:
  + WP\_HAWAII.H\_FRS (label FRS)
  + LLDS\_FISHERY\_SEASONS (label S)
  + WP\_HAWAII.H\_FRS\_AREA (label A)
* This sub table is used to select variables in the final FRS\_DEEP7\_TRIP\_HEADERS

Table #3) Lines 11 – 103 (FRS\_DEEP7\_TRIP\_HEADERS)

* This is the final table produced

Table #4) Lines 104 – 137

* I am not too sure how this table was used

**Table: FRS\_DEEP7\_DETAILS\_V7**

Produces one table (FRS\_DEEP7\_DETAIL) from the input tables

* WP\_HAWAII.H\_FRS
* LLDS\_FISHERY\_SEASONS
* WP\_HAWAII.H\_FRS\_AREA
* WP\_HAWAII.H\_FRS\_SPECIES
* FRS\_DEEP7\_TRIP\_HEADERS (Produced in FRS\_DEEP7\_TRIP\_HEADERS script)

By filtering the TRIP\_KEY for the TRIP\_KEYS in FRS\_DEEP7\_TRIP\_HEADERS.

(Lines 71 – 73 check the output by summarizing the number of distinct trip keys in each season)

**Table: ID\_DEEP7\_SEASON\_SPECIES\_V6**

Input tables

* WP\_HAWAII.H\_FRS
* LLDS\_FISHERY\_SEASONS
* WP\_HAWAII.H\_FRS\_AREA
* WP\_HAWAII.H\_FRS\_SPECIES
* FRS\_DEEP7\_TRIP\_HEADERS (Produced in FRS\_DEEP7\_TRIP\_HEADERS script)
* WP\_HAWAII.H\_INTEGDEALER

Sub Table #1) Lines 35 – 41

* Selects variables from
  + FRS\_DEEP7\_TRIP\_HEADERS
* and groups by
  + SEASON
  + FISHER\_LIC\_FK
  + REPORT\_KEY

Sub Table #2) Lines 43 – 56 (label ‘id’)

* Select variables from
  + WP\_HAWAII.H\_INTEGDEALER
* And group by
  + FISHERY
  + FISHER\_LIC\_FK
  + FISHER\_LIC\_FK + REPORT\_YEAR + REPORT\_MONTH
  + SPECIES\_FK

Table #3) Lines 22 – 61 (label ‘temp’)

* Selects variables from
  + Table # 1
  + Table #2
  + WP\_HAWAII.H\_FRS\_SPECIES (label SP)
* Where
  + id.REPORT\_KEY = frs.REPORT\_KEY (report key from integ dealer equals report key from frs)
  + id.SPECIES\_FK = sp.SPECIES\_PK
* Group by
  + SEASON
  + REPORT\_KEY
  + FISHER\_LIC\_FK
  + SPECIES\_FK
  + SPECIES\_NAME

Table #4) Lines 8 – 72 (label ID\_DEEP7\_SEASON\_SPECIES\_V)

* Select variables from
  + Temp
* Group by
  + SEASON
  + SPECIES\_FK
  + SPECIES\_NAME

**Table: FRS\_DDEP7\_CML\_SEASON\_SPECIES\_V11**

Input tables

* FRS\_DEEP7\_DETAILS (made from FRS\_DEEP7\_DETAILS\_V7 script)
* ID\_DEEP7\_SEASON\_SPECIES\_V (made from ID\_DEEP7\_SEASON\_SPECIES\_V6 script)

Sub Table #1) Lines 37 – 52 (label FRS)

* Select variables from
  + FRS\_DEEP7\_DETAIL
* Group by
  + SEASON
  + FISHER\_LIC\_FK
  + SPECIES\_FK
  + SPECIES\_NAME

Sub Table #2) Lines 53 – 61 (label sd)

* Select variables from
  + ID\_DEEP7\_SEASON-SPECIES\_V

Table #3) Lines 13 – 65 (FRS\_DEEP7\_CML\_SEASON\_SPECIES)

* Select variables from
  + Sub table #1
  + Sub table #2
* Where
  + sd.SEASON is left joined with frs.SEASON
  + sd.DAR\_SPECIES is left joined with frs.SPECIES\_FK