Tables

Bryan P. Galligan

5/28/2022

## Tables for FishTrapsFoodSec

# Load packages  
library(readr)  
library(knitr)  
library(plotrix)  
library(pander)  
  
# Import data  
TripData <- read\_csv("04\_DataExploration\_Out/TripDataForAnalysis\_GatedTraps\_Galligan.csv")

## Rows: 1839 Columns: 68  
## ── Column specification ────────────────────────────────────────────────────────  
## Delimiter: ","  
## chr (12): TripID, Country, Site, Observer, Fisher, TrapLocation, Depth\_m, S...  
## dbl (55): Latitude, Longitude, TotalCrew, TrapsOwned, TrapsFished, BrowserM...  
## date (1): Date  
##   
## ℹ Use `spec()` to retrieve the full column specification for this data.  
## ℹ Specify the column types or set `show\_col\_types = FALSE` to quiet this message.

# Subset by trap type  
trad.trip <- subset(TripData, TripData$TrapType == "Traditional")  
gated.trip <- subset(TripData, TripData$TrapType == "Gated")  
  
# Table columns   
GatedTrapConcentration <- c(  
 mean(gated.trip$CaConc\_mgPer100g),  
 mean(gated.trip$FeConc\_mgPer100g),  
 mean(gated.trip$Omega3Conc\_gPer100g),  
 mean(gated.trip$VAConc\_ugPer100g),  
 mean(gated.trip$SeConc\_ugPer100g),  
 mean(gated.trip$ZnConc\_ugPer100g))  
  
SE\_GTC <- c(  
 std.error(gated.trip$CaConc\_mgPer100g),  
 std.error(gated.trip$FeConc\_mgPer100g),  
 std.error(gated.trip$Omega3Conc\_gPer100g),  
 std.error(gated.trip$VAConc\_ugPer100g),  
 std.error(gated.trip$SeConc\_ugPer100g),  
 std.error(gated.trip$ZnConc\_ugPer100g)  
)  
  
TraditionalTrapConcentration <- c(  
 mean(trad.trip$CaConc\_mgPer100g),  
 mean(trad.trip$FeConc\_mgPer100g),  
 mean(trad.trip$Omega3Conc\_gPer100g),  
 mean(trad.trip$VAConc\_ugPer100g),  
 mean(trad.trip$SeConc\_ugPer100g),  
 mean(trad.trip$ZnConc\_ugPer100g)  
)  
  
SE\_TTC <- c(  
 std.error(trad.trip$CaConc\_mgPer100g),  
 std.error(trad.trip$FeConc\_mgPer100g),  
 std.error(trad.trip$Omega3Conc\_gPer100g),  
 std.error(trad.trip$VAConc\_ugPer100g),  
 std.error(trad.trip$SeConc\_ugPer100g),  
 std.error(trad.trip$ZnConc\_ugPer100g)  
)  
  
GatedTrapYield <- c(  
 mean(gated.trip$CaPUE),  
 mean(gated.trip$FePUE),  
 mean(gated.trip$Omega3PUE),  
 mean(gated.trip$VAPUE),  
 mean(gated.trip$SePUE),  
 mean(gated.trip$ZnPUE)  
)  
  
SE\_GTY <- c(  
 std.error(gated.trip$CaPUE),  
 std.error(gated.trip$FePUE),  
 std.error(gated.trip$Omega3PUE),  
 std.error(gated.trip$VAPUE),  
 std.error(gated.trip$SePUE),  
 std.error(gated.trip$ZnPUE)  
)  
  
TraditionalTrapYield <- c(  
 mean(trad.trip$CaPUE),  
 mean(trad.trip$FePUE),  
 mean(trad.trip$Omega3PUE),  
 mean(trad.trip$VAPUE),  
 mean(trad.trip$SePUE),  
 mean(trad.trip$ZnPUE)  
)  
  
SE\_TTY <- c(  
 std.error(trad.trip$CaPUE),  
 std.error(trad.trip$FePUE),  
 std.error(trad.trip$Omega3PUE),  
 std.error(trad.trip$VAPUE),  
 std.error(trad.trip$SePUE),  
 std.error(trad.trip$ZnPUE)  
)  
  
RDI <- c(700, 7, 0.7, 300, 20, 3)  
  
# Make a data frame  
tab1 <- data.frame(GatedTrapConcentration, SE\_GTC, TraditionalTrapConcentration, SE\_TTC, GatedTrapYield, SE\_GTY, TraditionalTrapYield, SE\_TTY, RDI)  
  
# Row names  
rownames(tab1) <- c("Calcium (mg)", "Iron (mg)", "Omega-3 (g)",  
 paste("Vitamin A (", "\u00b5", "g)", sep = ""),  
 paste("Selenium (", "\u00b5", "g)", sep = ""),  
 "Zinc (mg)")  
  
# Column names  
colnames(tab1) <- c(  
 "Gated Trap Concentration (100g^-1^)",  
 "±SE",  
 "Traditional Trap Concentration (100g^-1^)",  
 "±SE",  
 "Gated Trap Yield (Trap^-1^)",  
 "±SE",  
 "Traditional Trap Yield (Trap^-1^)",  
 "±SE",  
 "Recommended Daily Intake (Child 1-3 yrs)"  
 )  
  
# Render a table  
pander(tab1,  
 justify = c("right", "center", "center", "center", "center", "center", "center", "center", "center", "center"),  
 style = "grid")

Table continues below

|  | Gated Trap Concentration (100g-1) | ±SE |
| --- | --- | --- |
| **Calcium (mg)** | 7.453 | 0.1757 |
| \*\*Iron (mg)\*\* | 0.1418 | 0.003348 |
| **Omega-3 (g)** | 0.03809 | 0.000893 |
| **Vitamin A (µg)** | 9.321 | 0.4047 |
| **Selenium (µg)** | 5.693 | 0.146 |
| \*\*Zinc (mg)\*\* | 0.2906 | 0.007136 |

Table continues below

|  | Traditional Trap Concentration (100g-1) | ±SE |
| --- | --- | --- |
| **Calcium (mg)** | 7.181 | 0.1702 |
| \*\*Iron (mg)\*\* | 0.1274 | 0.002776 |
| **Omega-3 (g)** | 0.03469 | 0.0007538 |
| **Vitamin A (µg)** | 8.883 | 0.3561 |
| **Selenium (µg)** | 5.778 | 0.1389 |
| \*\*Zinc (mg)\*\* | 0.2602 | 0.006045 |

Table continues below

|  | Gated Trap Yield (Trap-1) | ±SE |
| --- | --- | --- |
| **Calcium (mg)** | 278.3 | 10.54 |
| \*\*Iron (mg)\*\* | 5.203 | 0.2005 |
| **Omega-3 (g)** | 1.379 | 0.04988 |
| **Vitamin A (µg)** | 448.6 | 32.33 |
| **Selenium (µg)** | 259.3 | 12.46 |
| \*\*Zinc (mg)\*\* | 11.15 | 0.4761 |

Table continues below

|  | Traditional Trap Yield (Trap-1) | ±SE |
| --- | --- | --- |
| **Calcium (mg)** | 212.9 | 8.058 |
| \*\*Iron (mg)\*\* | 3.924 | 0.1547 |
| **Omega-3 (g)** | 1.058 | 0.04123 |
| **Vitamin A (µg)** | 254.4 | 15.73 |
| **Selenium (µg)** | 163.6 | 6.743 |
| \*\*Zinc (mg)\*\* | 7.866 | 0.3124 |

|  | Recommended Daily Intake (Child 1-3 yrs) |
| --- | --- |
| **Calcium (mg)** | 700 |
| \*\*Iron (mg)\*\* | 7 |
| **Omega-3 (g)** | 0.7 |
| **Vitamin A (µg)** | 300 |
| **Selenium (µg)** | 20 |
| \*\*Zinc (mg)\*\* | 3 |