

# WDFW Budget

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Today we are going to set out to visualize budget data for the Washington Department of Fish and Wildlife.

I will be getting my data from their page on the 2022 legislative session: <https://wdfw.wa.gov/about/administration/budget/update>

To start, let's load in our packages.

```
library(pacman)
p_load(tidyverse,ggrepel)
```

In the future, perhaps I will use Rvest and httr to webscrape this information, but for now let's manually input the data.

```
#WDFW 2022 operating funding emergency needs budget
df_operating_funding_emergency_needs <- data.frame(project=c("Supporting habitat-friendly solar facilit
                                "Forage fish spawning monitoring",
                                "Integrating salmon recovery plans at local",
                                "Freshwater monitoring",
                                "Meeting recreation needs",
                                "Building salmon team capacity",
                                "Fish passage rulemaking",
                                "License reduction and alternative gear: C",
                                "Hatchery production and compliance",
                                "Monitoring recreational shellfish harvest",
                                "Safe and sanitary water access areas",
                                "Improving wildlife monitoring",
                                "Supplemental maintenance level packages"),
                                funds = c(400000,700000,
                                           1300000,2600000,
                                           3500000,1000000,
                                           300000,3400000,
                                           600000,300000,
                                           500000,2400000,
                                           2400000))

#WDFW 2022 Capital projects budget
df_capital_projects <- data.frame(
  projects = c("Duckabush Estuary Restoration Project",
               "Hoffstadt Hills Acquisition",
               "Deschutes Watershed Center Hatchery Work"),
  funds = c(5100000,1450000,2200000))
```

Now let's visualize the operating funding emergency budget in a pie chart.

```
#Plotting operating emergency funding needs
p1 <- df_operating_funding_emergency_needs %>%
  ggplot(aes(x = "", y = funds, fill = project)) +
  geom_bar(stat = "identity", width = 1, color = "black") +
  coord_polar("y", start = 0) +
  theme_void() +
  labs(title = "2022 Legislative Session: WDFW",
        subtitle = paste("Operating Funding Emergency Needs, Total = $",
                          format(sum(df_operating_funding_emergency_needs$funds),
                                scientific = FALSE, big.mark = ",", sep = ""),
                          fill = "")) +
  scale_fill_brewer(palette = "Set3")

p1
```

```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set3 is 12
## Returning the palette you asked for with that many colors
```

## 2022 Legislative Session: WDFW

Operating Funding Emergency Needs, Total = \$41,000,000

