

## Data Set Summary

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The data for my “Investing in the Trenches” project comes from several sources. The Offensive Line salary cap data is obtained from Spotrac via a premium subscription and compiled into a CSV file.

This dataset includes the following variables: Season, Team, totalCapSpent, olCapSpent, and olCapPct. It contains data on each team's total cap spending and how much they allocate specifically to their offensive line from the 2020 to 2023 seasons. I also calculated the percentage of the cap spent on the offensive line.

The Offensive Line draft capital dataset includes these variables: Season, Team, totalDraftSpent, olDraftCap, olDraftPct, and PCT. This dataset tracks the full draft class spending and the capital invested in the offensive line for each team from 2020 to 2023. I calculated the percentage of draft capital allocated to the offensive line in two different ways.

Lastly, I’ve included data from NFLVerse through R Studio, which provides metrics such as rushing EPA, receiving EPA, and sacks suffered. Sacks suffered simply counts the number of sacks, while rushing and receiving EPA represent the expected points added before and after each play. These stats will be used to assess whether increased offensive line investment leads to better performance.

Here are the summary statistics for these datasets:

season	Mean OL Cap Percentage		Mean OL Draft Capital Percentage		sd	Mean rushing epa	sd rush	Mean sacks suffered	sd sacks	Mean receiving epa	sd recieving
2020	0.1865484	0.0366192	0.1948276	0.1322503		-11.86835	29.88267	11.164415	11.164415	116.39793	63.50736
2021	0.1882188	0.0415055	0.1846667	0.1080783		-15.50375	29.93812	9.186824	9.186824	99.84792	64.67174
2022	0.1798806	0.0406540	0.1853333	0.1386321		-13.02628	32.90124	10.441803	10.441803	83.87860	58.29848
2023	0.1850129	0.0404289	0.1723333	0.1179036		-28.04267	30.54841	12.983706	12.983706	84.38755	65.71570