NFL Positional First Round Hit Rates 2013-2019 (Data)

2023-12-12

```
# Revised tibble for first-round NFL quarterbacks from 2013 to 2019
options(repos = c(CRAN = "https://cran.rstudio.com/"))
install.packages("tibble")
```

```
##
## The downloaded binary packages are in
##  /var/folders/zb/wqlvkcn10pz4ym1w4hpk25fr0000gn/T//RtmpgqqAMd/downloaded_packages
```

```
library(tibble)
quarterbacks <- tibble(
  Year = c(2013, 2014, 2014, 2014, 2015, 2015, 2016, 2016, 2016, 2017, 2017, 2017, 2018, 2018, 2018, 20
  Quarterback = c("EJ Manuel", "Blake Bortles", "Johnny Manziel", "Teddy Bridgewater",
                  "Jameis Winston", "Marcus Mariota", "Jared Goff", "Carson Wentz",
                  "Paxton Lynch", "Mitchell Trubisky", "Patrick Mahomes", "Deshaun Watson",
                  "Baker Mayfield", "Sam Darnold", "Josh Allen", "Josh Rosen", "Lamar Jackson",
                  "Kyler Murray", "Daniel Jones", "Dwayne Haskins"),
  Still_Starter = c("No", "No", "No", "No", "No", "No", "Yes", "No",
                    "No", "No", "Yes", "Yes", "Yes", "No", "Yes", "No", "Yes",
                    "Yes", "Yes", "No"),
  Multiple_Pro_Bowls = c("No", "No", "No", "No", "No", "No", "Yes", "No",
                         "No", "No", "Yes", "Yes", "No", "No", "Yes", "No", "Yes",
                         "Yes", "No", "No"),
  All_Pro = c("No", "No", "No", "No", "No", "No", "No", "No",
              "No", "No", "Yes", "No", "No", "No", "No", "No", "Yes",
              "No", "No", "No")
)

# View the revised tibble
print(quarterbacks)
```

```
## # A tibble: 20 x 5
##     Year Quarterback       Still_Starter Multiple_Pro_Bowls All_Pro
##    <dbl> <chr>             <chr>         <chr>              <chr>
##  1  2013 EJ Manuel         No            No                 No
##  2  2014 Blake Bortles     No            No                 No
##  3  2014 Johnny Manziel    No            No                 No
##  4  2014 Teddy Bridgewater No            No                 No
##  5  2015 Jameis Winston    No            No                 No
##  6  2015 Marcus Mariota    No            No                 No
##  7  2016 Jared Goff        Yes           Yes                No
##  8  2016 Carson Wentz      No            No                 No
##  9  2016 Paxton Lynch      No            No                 No
## 10  2017 Mitchell Trubisky No            No                 No
```

```
## 11  2017 Patrick Mahomes   Yes           Yes               Yes
## 12  2017 Deshaun Watson    Yes           Yes               No
## 13  2018 Baker Mayfield    Yes           No                No
## 14  2018 Sam Darnold       No            No                No
## 15  2018 Josh Allen        Yes           Yes               No
## 16  2018 Josh Rosen        No            No                No
## 17  2018 Lamar Jackson     Yes           Yes               Yes
## 18  2019 Kyler Murray      Yes           Yes               No
## 19  2019 Daniel Jones      Yes           No                No
## 20  2019 Dwayne Haskins    No            No                No
```

```r
# Calculate the percentages
total_qbs <- nrow(quarterbacks)
still_starter_yes_percent <- (sum(quarterbacks$Still_Starter == "Yes") / total_qbs) * 100
multiple_pro_bowls_yes_percent <- (sum(quarterbacks$Multiple_Pro_Bowls == "Yes") / total_qbs) * 100
all_pro_yes_percent <- (sum(quarterbacks$All_Pro == "Yes") / total_qbs) * 100

# Print the percentages
cat("Percentage of 'Still Starter - Yes':", still_starter_yes_percent, "%\n")
```

```
## Percentage of 'Still Starter - Yes': 40 %
```

```r
cat("Percentage of 'Multiple Pro Bowls - Yes':", multiple_pro_bowls_yes_percent, "%\n")
```

```
## Percentage of 'Multiple Pro Bowls - Yes': 30 %
```

```r
cat("Percentage of 'All-Pro - Yes':", all_pro_yes_percent, "%\n")
```

```
## Percentage of 'All-Pro - Yes': 10 %
```

```r
# Updated tibble for first-round NFL running backs from 2013 to 2019
RBs <- tibble(
  Year = c(2013, 2013, 2013, 2013, 2013, 2013, 2014, 2014, 2014, 2015, 2015, 2016, 2017, 2017, 2018, 201
  Running_Back = c("Cordarelle Patterson", "Giovani Bernard", "Le'Veon Bell", "Montee Ball", "Eddie Lacy
                   "Bishop Sankey", "Jeremy Hill", "Carlos Hyde", "Todd Gurley", "Melvin Gordon", "Ezeki
                   "Leonard Fournette", "Christian McCaffrey", "Saquon Barkley", "Rashaad Penny", "Sony
  Still_Starter = c("No", "No", "No", "No", "No", "No", "No", "No", "No", "No", "No", "No", "No", "Yes"
  Multiple_Pro_Bowls = c("No", "No", "Yes", "No", "No", "No", "No", "No", "No", "Yes", "Yes", "Yes", "N
  All_Pro = c("No", "No", "Yes", "No", "No", "No", "No", "No", "No", "Yes", "No", "Yes", "No", "Yes", "
)

# View the updated tibble
print(RBs)
```

```
## # A tibble: 18 x 5
##     Year Running_Back         Still_Starter Multiple_Pro_Bowls All_Pro
##    <dbl> <chr>                <chr>         <chr>              <chr>
##  1  2013 Cordarelle Patterson No            No                 No
##  2  2013 Giovani Bernard      No            No                 No
##  3  2013 Le'Veon Bell         No            Yes                Yes
##  4  2013 Montee Ball          No            No                 No
```

```
##  5  2013 Eddie Lacy           No            No                No
##  6  2013 Christine Michael    No            No                No
##  7  2014 Bishop Sankey        No            No                No
##  8  2014 Jeremy Hill          No            No                No
##  9  2014 Carlos Hyde          No            No                No
## 10  2015 Todd Gurley          No            Yes               Yes
## 11  2015 Melvin Gordon        No            Yes               No
## 12  2016 Ezekiel Elliott      No            Yes               Yes
## 13  2017 Leonard Fournette    No            No                No
## 14  2017 Christian McCaffrey  Yes           Yes               Yes
## 15  2018 Saquon Barkley       Yes           Yes               No
## 16  2018 Rashaad Penny        No            No                No
## 17  2018 Sony Michel          No            No                No
## 18  2019 Josh Jacobs          Yes           Yes               Yes
```

```r
# Calculate the percentages
total_rbs <- nrow(RBs)
still_starter_yes_percent_rbs <- (sum(RBs$Still_Starter == "Yes") / total_rbs) * 100
multiple_pro_bowls_yes_percent_rbs <- (sum(RBs$Multiple_Pro_Bowls == "Yes") / total_rbs) * 100
all_pro_yes_percent_rbs <- (sum(RBs$All_Pro == "Yes") / total_rbs) * 100

# Print the percentages
cat("Percentage of 'Still Starter - Yes' among Running Backs:", still_starter_yes_percent_rbs, "%\n")
```

```
## Percentage of 'Still Starter - Yes' among Running Backs: 16.66667 %
```

```r
cat("Percentage of 'Multiple Pro Bowls - Yes' among Running Backs:", multiple_pro_bowls_yes_percent_rbs
```

```
## Percentage of 'Multiple Pro Bowls - Yes' among Running Backs: 38.88889 %
```

```r
cat("Percentage of 'All-Pro - Yes' among Running Backs:", all_pro_yes_percent_rbs, "%\n")
```

```
## Percentage of 'All-Pro - Yes' among Running Backs: 27.77778 %
```

```r
# Updated tibble for first-round NFL wide receivers from 2013 to 2019
WRs <- tibble(
  Year = c(2013, 2013, 2014, 2014, 2014, 2014, 2014, 2015, 2015, 2015, 2015, 2015, 2015, 2016, 2016, 20
  Wide_Receiver = c("Tavon Austin", "Deandre Hopkins", "Sammy Watkins", "Mike Evans", "Odell Beckham Jr
                    "Amari Cooper", "Kevin White", "DeVante Parker", "Nelson Agholor", "Breshad Perrima
                    "Corey Coleman", "Will Fuller", "Josh Doctson", "Laquon Treadwell",
                    "Corey Davis", "Mike Williams", "John Ross",
                    "D.J. Moore", "Calvin Ridley",
                    "Marquise Brown", "N'Keal Harry"),
  Still_Starter = c("No", "Yes", "No", "Yes", "No", "Yes", "No",
                    "Yes", "No", "No", "No", "No", "No",
                    "No", "No", "No", "No",
                    "No", "Yes", "No",
                    "Yes", "Yes",
                    "Yes", "No"),
  Multiple_Pro_Bowls = c("No", "Yes", "No", "Yes", "Yes", "No", "No",
                         "Yes", "No", "No", "No", "No", "No",
```

```
                         "No", "No", "No", "No",
                         "No", "No", "No",
                         "No", "No",
                         "No", "No"),
  All_Pro = c("No", "Yes", "No", "No", "No", "No", "No",
              "No", "No", "No", "No", "No", "No",
              "No", "No", "No", "No",
              "No", "No", "No",
              "No", "No",
              "No", "No")
)

# View the updated tibble
print(WRs)
```

```
## # A tibble: 24 x 5
##     Year Wide_Receiver     Still_Starter Multiple_Pro_Bowls All_Pro
##    <dbl> <chr>             <chr>         <chr>              <chr>
##  1  2013 Tavon Austin      No            No                 No
##  2  2013 Deandre Hopkins   Yes           Yes                Yes
##  3  2014 Sammy Watkins     No            No                 No
##  4  2014 Mike Evans        Yes           Yes                No
##  5  2014 Odell Beckham Jr. No            Yes                No
##  6  2014 Brandin Cooks     Yes           No                 No
##  7  2014 Kelvin Benjamin   No            No                 No
##  8  2015 Amari Cooper      Yes           Yes                No
##  9  2015 Kevin White       No            No                 No
## 10  2015 DeVante Parker    No            No                 No
## # i 14 more rows
```

```
# Calculate the percentages
total_wrs <- nrow(WRs)
still_starter_yes_percent_wrs <- (sum(WRs$Still_Starter == "Yes") / total_wrs) * 100
multiple_pro_bowls_yes_percent_wrs <- (sum(WRs$Multiple_Pro_Bowls == "Yes") / total_wrs) * 100
all_pro_yes_percent_wrs <- (sum(WRs$All_Pro == "Yes") / total_wrs) * 100

# Print the percentages
cat("Percentage of 'Still Starter - Yes' among Wide Receivers:", still_starter_yes_percent_wrs, "%\n")
```

```
## Percentage of 'Still Starter - Yes' among Wide Receivers: 33.33333 %
```

```
cat("Percentage of 'Multiple Pro Bowls - Yes' among Wide Receivers:", multiple_pro_bowls_yes_percent_wrs
```

```
## Percentage of 'Multiple Pro Bowls - Yes' among Wide Receivers: 16.66667 %
```

```
cat("Percentage of 'All-Pro - Yes' among Wide Receivers:", all_pro_yes_percent_wrs, "%\n")
```

```
## Percentage of 'All-Pro - Yes' among Wide Receivers: 4.166667 %
```

```r
# Updated tibble for first-round NFL tight ends from 2013 to 2019
TEs <- tibble(
  Year = c(2013, 2014, 2017, 2017, 2017, 2018, 2019, 2019),
  Tight_End = c("Tyler Eifert", "Eric Ebron", "O.J. Howard", "Evan Engram", "David Njoku",
                "Hayden Hurst", "T.J. Hockenson", "Noah Fant"),
  Still_Starter = c("No", "No", "No", "Yes", "Yes", "Yes", "Yes", "No"),
  Multiple_Pro_Bowls = c("No", "No", "No", "No", "No", "No", "Yes", "No"),
  All_Pro = c("No", "No", "No", "No", "No", "No", "No", "No")
)

# View the updated tibble
print(TEs)
```

```
## # A tibble: 8 x 5
##    Year Tight_End      Still_Starter Multiple_Pro_Bowls All_Pro
##   <dbl> <chr>          <chr>         <chr>              <chr>
## 1  2013 Tyler Eifert   No            No                 No
## 2  2014 Eric Ebron     No            No                 No
## 3  2017 O.J. Howard    No            No                 No
## 4  2017 Evan Engram    Yes           No                 No
## 5  2017 David Njoku    Yes           No                 No
## 6  2018 Hayden Hurst   Yes           No                 No
## 7  2019 T.J. Hockenson Yes           Yes                No
## 8  2019 Noah Fant      No            No                 No
```

```r
# Calculate the percentages
total_tes <- nrow(TEs)
still_starter_yes_percent_tes <- (sum(TEs$Still_Starter == "Yes") / total_tes) * 100
multiple_pro_bowls_yes_percent_tes <- (sum(TEs$Multiple_Pro_Bowls == "Yes") / total_tes) * 100
all_pro_yes_percent_tes <- (sum(TEs$All_Pro == "Yes") / total_tes) * 100

# Print the percentages
cat("Percentage of 'Still Starter - Yes' among Tight Ends:", still_starter_yes_percent_tes, "%\n")
```

```
## Percentage of 'Still Starter - Yes' among Tight Ends: 50 %
```

```r
cat("Percentage of 'Multiple Pro Bowls - Yes' among Tight Ends:", multiple_pro_bowls_yes_percent_tes, "
```

```
## Percentage of 'Multiple Pro Bowls - Yes' among Tight Ends: 12.5 %
```

```r
cat("Percentage of 'All-Pro - Yes' among Tight Ends:", all_pro_yes_percent_tes, "%\n")
```

```
## Percentage of 'All-Pro - Yes' among Tight Ends: 0 %
```

```r
# Creating a tibble for first-round NFL offensive tackles from 2013 to 2019
OTs <- tibble(
  Year = c(2013, 2013, 2013, 2013, 2014, 2014, 2014, 2014, 2015, 2015, 2015, 2015, 2016, 2016, 2016, 20
           2018, 2018, 2018, 2019, 2019, 2019, 2019),
  Offensive_Tackle = c("Eric Fisher", "Luke Joeckel", "Lane Johnson", "D.J. Fluker",
                       "Ja'Wuan James", "Greg Robinson", "Jake Matthews", "Taylor Lewan",
```

```
                       "Ereck Flowers", "Andrus Peat", "Cedric Ogbuehi", "D.J. Humphries",
                       "Ronnie Stanley", "Jack Conklin", "Laremy Tunsil", "Taylor Decker", "Germain Ifed
                       "Garett Bolles", "Ryan Ramczyk",
                       "Mike McGlinchey", "Kolton Miller", "Isaiah Wynn",
                       "Jonah Williams", "Andre Dillard", "Tytus Howard", "Kaleb McGary"),
  Still_Starter = c("No", "No", "Yes", "No",
                    "No", "No", "Yes", "No",
                    "No", "Yes", "No", "Yes",
                    "Yes", "Yes", "Yes", "Yes", "No",
                    "Yes", "Yes",
                    "Yes", "Yes", "Yes",
                    "Yes", "No", "Yes", "Yes"),
  Multiple_Pro_Bowls = c("Yes", "No", "Yes", "No",
                         "No", "No", "No", "Yes",
                         "No", "Yes", "No", "No",
                         "No", "No", "Yes", "No", "No",
                         "No", "No",
                         "No", "No", "No",
                         "No", "No", "No", "No"),
  All_Pro = c("No", "No", "Yes", "No",
              "No", "No", "No", "No",
              "No", "No", "No", "No",
              "Yes", "Yes", "No", "No", "No",
              "No", "Yes",
              "No", "No", "No",
              "No", "No", "No", "No")
)

# View the updated tibble
print(OTs)
```

```
## # A tibble: 26 x 5
##     Year Offensive_Tackle Still_Starter Multiple_Pro_Bowls All_Pro
##    <dbl> <chr>            <chr>         <chr>              <chr>
##  1  2013 Eric Fisher      No            Yes                No
##  2  2013 Luke Joeckel     No            No                 No
##  3  2013 Lane Johnson     Yes           Yes                Yes
##  4  2013 D.J. Fluker      No            No                 No
##  5  2014 Ja'Wuan James    No            No                 No
##  6  2014 Greg Robinson    No            No                 No
##  7  2014 Jake Matthews    Yes           No                 No
##  8  2014 Taylor Lewan     No            Yes                No
##  9  2015 Ereck Flowers    No            No                 No
## 10  2015 Andrus Peat      Yes           Yes                No
## # i 16 more rows
```

```
# Calculate the percentages
total_ots <- nrow(OTs)
still_starter_yes_percent_ots <- (sum(OTs$Still_Starter == "Yes") / total_ots) * 100
multiple_pro_bowls_yes_percent_ots <- (sum(OTs$Multiple_Pro_Bowls == "Yes") / total_ots) * 100
all_pro_yes_percent_ots <- (sum(OTs$All_Pro == "Yes") / total_ots) * 100

# Print the percentages
```

```r
cat("Percentage of 'Still Starter - Yes' among Offensive Tackles:", still_starter_yes_percent_ots, "%\n
```

```
## Percentage of 'Still Starter - Yes' among Offensive Tackles: 61.53846 %
```

```r
cat("Percentage of 'Multiple Pro Bowls - Yes' among Offensive Tackles:", multiple_pro_bowls_yes_percent
```

```
## Percentage of 'Multiple Pro Bowls - Yes' among Offensive Tackles: 19.23077 %
```

```r
cat(" ercentage of 'All-Pro - Yes' among Offensive Tackles:", all_pro_yes_percent_ots, "%\n")
```

```
##  ercentage of 'All-Pro - Yes' among Offensive Tackles: 15.38462 %
```

```r
# Creating a tibble for first-round NFL offensive guards from 2013 to 2019
OGs <- tibble(
  Year = c(2013, 2013, 2013, 2013, 2014, 2014, 2015, 2016, 2018, 2019),
  Offensive_Guard = c("Kyle Long", "Justin Pugh", "Jonathan Cooper", "Chance Warmack", "Zach Martin", "
  Still_Starter = c("No", "No", "No", "No", "Yes", "Yes", "Yes", "No", "Yes", "Yes"),
  Multiple_Pro_Bowls = c("Yes", "No", "No", "No", "Yes", "Yes", "No", "No", "Yes", "No"),
  All_Pro = c("No", "No", "No", "No", "Yes", "Yes", "No", "No", "Yes", "No")
)

# View the updated tibble
print(OGs)
```

```
## # A tibble: 10 x 5
##     Year Offensive_Guard Still_Starter Multiple_Pro_Bowls All_Pro
##    <dbl> <chr>           <chr>         <chr>              <chr>
##  1  2013 Kyle Long       No            Yes                No
##  2  2013 Justin Pugh     No            No                 No
##  3  2013 Jonathan Cooper No            No                 No
##  4  2013 Chance Warmack  No            No                 No
##  5  2014 Zach Martin     Yes           Yes                Yes
##  6  2014 Brandon Scherff Yes           Yes                Yes
##  7  2015 Laken Tomlinson Yes           No                 No
##  8  2016 Josh Garnett    No            No                 No
##  9  2018 Quenton Nelson  Yes           Yes                Yes
## 10  2019 Chris Lindstrom Yes           No                 No
```

```r
# Calculate the percentages
total_ogs <- nrow(OGs)
still_starter_yes_percent_ogs <- (sum(OGs$Still_Starter == "Yes") / total_ogs) * 100
multiple_pro_bowls_yes_percent_ogs <- (sum(OGs$Multiple_Pro_Bowls == "Yes") / total_ogs) * 100
all_pro_yes_percent_ogs <- (sum(OGs$All_Pro == "Yes") / total_ogs) * 100

# Print the percentages
cat("Percentage of 'Still Starter - Yes' among Offensive Guards:", still_starter_yes_percent_ogs, "%\n"
```

```
## Percentage of 'Still Starter - Yes' among Offensive Guards: 50 %
```

```r
cat("Percentage of 'Multiple Pro Bowls - Yes' among Offensive Guards:", multiple_pro_bowls_yes_percent_
```

```
## Percentage of 'Multiple Pro Bowls - Yes' among Offensive Guards: 40 %
```

```r
cat("Percentage of 'All-Pro - Yes' among Offensive Guards:", all_pro_yes_percent_ogs, "%\n")
```

```
## Percentage of 'All-Pro - Yes' among Offensive Guards: 30 %
```

```r
# Creating a tibble for first-round NFL centers from 2013 to 2019
Centers <- tibble(
  Year = c(2013, 2015, 2016, 2018, 2018, 2019),
  Center = c("Travis Frederick", "Cameron Erving", "Ryan Kelly", "Billy Price", "Frank Ragnow", "Garret
  Still_Starter = c("No", "No", "Yes", "No", "Yes", "Yes"),
  Multiple_Pro_Bowls = c("Yes", "No", "Yes", "No", "Yes", "No"),
  All_Pro = c("Yes", "No", "No", "No", "No", "No")
)

# View the updated tibble
print(Centers)
```

```
## # A tibble: 6 x 5
##    Year Center           Still_Starter Multiple_Pro_Bowls All_Pro
##   <dbl> <chr>            <chr>         <chr>               <chr>
## 1  2013 Travis Frederick No            Yes                 Yes
## 2  2015 Cameron Erving   No            No                  No
## 3  2016 Ryan Kelly       Yes           Yes                 No
## 4  2018 Billy Price      No            No                  No
## 5  2018 Frank Ragnow     Yes           Yes                 No
## 6  2019 Garrett Bradbury Yes           No                  No
```

```r
# Calculate the percentages
total_centers <- nrow(Centers)
still_starter_yes_percent_centers <- (sum(Centers$Still_Starter == "Yes") / total_centers) * 100
multiple_pro_bowls_yes_percent_centers <- (sum(Centers$Multiple_Pro_Bowls == "Yes") / total_centers) * 
all_pro_yes_percent_centers <- (sum(Centers$All_Pro == "Yes") / total_centers) * 100

# Print the percentages
cat("Percentage of 'Still Starter - Yes' among Centers:", still_starter_yes_percent_centers, "%\n")
```

```
## Percentage of 'Still Starter - Yes' among Centers: 50 %
```

```r
cat("Percentage of 'Multiple Pro Bowls - Yes' among Centers:", multiple_pro_bowls_yes_percent_centers, 
```

```
## Percentage of 'Multiple Pro Bowls - Yes' among Centers: 50 %
```

```r
cat("Percentage of 'All-Pro - Yes' among Centers:", all_pro_yes_percent_centers, "%\n")
```

```
## Percentage of 'All-Pro - Yes' among Centers: 16.66667 %
```

```r
# Updated tibble for first-round NFL defensive ends from 2013 to 2019
DEs <- tibble(
  Year = c(2013, 2013, 2013, 2013, 2014, 2014, 2014, 2014, 2014, 2015, 2015, 2015, 2016, 2017, 2017, 20
  Defensive_End = c("Datone Jones", "Bjoern Werner", "Dion Jordan", "Ziggy Ansah",
                    "Marcus Smith", "Dominique Easley", "Leonard Williams", "Jadeveon Clowney", "Dee Fo
                    "Arik Armstead", "Dante Fowler Jr.", "Shane Ray", "Shaq Lawson",
                    "Myles Garrett", "Solomon Thomas", "Taco Charlton", "Derek Barnett", "Takkarist McK
                    "Bradley Chubb", "Marcus Davenport",
                    "Nick Bosa", "Clelin Ferrell", "Montez Sweat", "L.J. Collier", "Dexter Lawrence"),
  Still_Starter = c("No", "No", "No", "No",
                    "No", "No", "Yes", "Yes", "No",
                    "Yes", "No", "No", "No",
                    "Yes", "No", "No", "No", "No",
                    "Yes", "Yes",
                    "Yes", "No", "Yes", "No", "Yes"),
  Multiple_Pro_Bowls = c("No", "No", "No", "No",
                         "No", "No", "No", "Yes", "No",
                         "No", "No", "No", "No",
                         "Yes", "No", "No", "No", "No",
                         "Yes", "No",
                         "Yes", "No", "No", "No", "No"),
  All_Pro = c("No", "No", "No", "No",
              "No", "No", "No", "No", "No",
              "No", "No", "No", "No",
              "Yes", "No", "No", "No", "No",
              "No", "No",
              "Yes", "No", "No", "No", "No")
)

# View the updated tibble
print(DEs)
```

```
## # A tibble: 25 x 5
##     Year Defensive_End    Still_Starter Multiple_Pro_Bowls All_Pro
##    <dbl> <chr>            <chr>         <chr>              <chr>
##  1  2013 Datone Jones     No            No                 No
##  2  2013 Bjoern Werner    No            No                 No
##  3  2013 Dion Jordan      No            No                 No
##  4  2013 Ziggy Ansah      No            No                 No
##  5  2014 Marcus Smith     No            No                 No
##  6  2014 Dominique Easley No            No                 No
##  7  2014 Leonard Williams Yes           No                 No
##  8  2014 Jadeveon Clowney Yes           Yes                No
##  9  2014 Dee Ford         No            No                 No
## 10  2015 Arik Armstead    Yes           No                 No
## # i 15 more rows
```

```r
# Calculate the percentages
total_des <- nrow(DEs)
still_starter_yes_percent_des <- (sum(DEs$Still_Starter == "Yes") / total_des) * 100
multiple_pro_bowls_yes_percent_des <- (sum(DEs$Multiple_Pro_Bowls == "Yes") / total_des) * 100
all_pro_yes_percent_des <- (sum(DEs$All_Pro == "Yes") / total_des) * 100
```

```r
# Print the percentages
cat("Percentage of 'Still Starter - Yes' among Defensive Ends:", still_starter_yes_percent_des, "%\n")
```

```
## Percentage of 'Still Starter - Yes' among Defensive Ends: 36 %
```

```r
cat("Percentage of 'Multiple Pro Bowls - Yes' among Defensive Ends:", multiple_pro_bowls_yes_percent_des
```

```
## Percentage of 'Multiple Pro Bowls - Yes' among Defensive Ends: 16 %
```

```r
cat("Percentage of 'All-Pro - Yes' among Defensive Ends:", all_pro_yes_percent_des, "%\n")
```

```
## Percentage of 'All-Pro - Yes' among Defensive Ends: 8 %
```

```r
# Updated tibble for first-round NFL defensive tackles from 2013 to 2019
DTs <- tibble(
  Year = c(2013, 2013, 2013, 2013, 2014, 2014, 2015, 2015, 2015, 2016, 2016, 2016, 2016, 2016, 2017, 20
  Defensive_Tackle = c("Sheldon Richardson", "Sharrif Floyd", "Star Lotulelei", "Sylvester Williams",
                       "Aaron Donald", "Timmy Jernigan",
                       "Danny Shelton", "Malcom Brown", "Eddie Goldman",
                       "DeForest Buckner" , "Kenny Clark", "Sheldon Rankins", "Robert Nkemdiche", "Verno
                       "Jonathan Allen",
                       "Vita Vea", "Da'Ron Payne", "Taven Bryan",
                       "Quinnen Williams", "Ed Oliver", "Christian Wilkins", "Jeffery Simmons", "Jerry
  Still_Starter = c("No", "No", "No", "No",
                    "Yes", "No",
                    "No", "No", "No",
                    "Yes", "Yes", "Yes", "No", "No",
                    "Yes",
                    "Yes", "Yes", "No",
                    "Yes", "Yes", "Yes", "Yes", "No"),
  Multiple_Pro_Bowls = c("No", "No", "No", "No",
                         "Yes", "No",
                         "No", "No", "No",
                         "Yes", "Yes", "No", "No", "No",
                         "Yes",
                         "No", "No", "No",
                         "No", "No", "No", "Yes", "No"),
  All_Pro = c("No", "No", "No", "No",
              "Yes", "No",
              "No", "No", "No",
              "Yes", "No", "No", "No", "No",
              "No",
              "No", "No", "No",
              "No", "No", "No", "No", "No")
)

# View the updated tibble
print(DTs)
```

```
## # A tibble: 23 x 5
##     Year Defensive_Tackle   Still_Starter Multiple_Pro_Bowls All_Pro
```

```
##    <dbl> <chr>              <chr>         <chr>              <chr>
##  1  2013 Sheldon Richardson No            No                 No
##  2  2013 Sharrif Floyd      No            No                 No
##  3  2013 Star Lotulelei     No            No                 No
##  4  2013 Sylvester Williams No            No                 No
##  5  2014 Aaron Donald       Yes           Yes                Yes
##  6  2014 Timmy Jernigan     No            No                 No
##  7  2015 Danny Shelton      No            No                 No
##  8  2015 Malcom Brown       No            No                 No
##  9  2015 Eddie Goldman      No            No                 No
## 10  2016 DeForest Buckner   Yes           Yes                Yes
## # i 13 more rows
```

```r
# Calculate the percentages for DTs
total_dts <- nrow(DTs)
still_starter_yes_percent_dts <- (sum(DTs$Still_Starter == "Yes") / total_dts) * 100
multiple_pro_bowls_yes_percent_dts <- (sum(DTs$Multiple_Pro_Bowls == "Yes") / total_dts) * 100
all_pro_yes_percent_dts <- (sum(DTs$All_Pro == "Yes") / total_dts) * 100

# Print the percentages for DTs
cat("Percentage of 'Still Starter - Yes' among Defensive Tackles:", still_starter_yes_percent_dts, "%\n
```

```
## Percentage of 'Still Starter - Yes' among Defensive Tackles: 47.82609 %
```

```r
cat("Percentage of 'Multiple Pro Bowls - Yes' among Defensive Tackles:", multiple_pro_bowls_yes_percent_
```

```
## Percentage of 'Multiple Pro Bowls - Yes' among Defensive Tackles: 21.73913 %
```

```r
cat("Percentage of 'All-Pro - Yes' among Defensive Tackles:", all_pro_yes_percent_dts, "%\n")
```

```
## Percentage of 'All-Pro - Yes' among Defensive Tackles: 8.695652 %
```

```r
# Updated tibble for first-round NFL middle linebackers from 2013 to 2019
MLBs <- tibble(
  Year = c(2013, 2014, 2015, 2016, 2017, 2017, 2018, 2018, 2018, 2019, 2019),
  Middle_Linebacker = c("Alec Ogletree", "C.J. Mosley", "Stephone Anthony", "Darron Lee", "Reuben Foste
  Still_Starter = c("No", "Yes", "No", "No", "No", "No", "Yes", "No", "Yes", "No", "Yes"),
  Multiple_Pro_Bowls = c("No", "Yes", "No", "No", "No", "No", "No", "No", "Yes", "No", "No"),
  All_Pro = c("No", "No", "No", "No", "No", "No", "Yes", "No", "No", "No", "No")
)

# View the updated tibble
print(MLBs)
```

```
## # A tibble: 11 x 5
##     Year Middle_Linebacker Still_Starter Multiple_Pro_Bowls All_Pro
##    <dbl> <chr>             <chr>         <chr>              <chr>
##  1  2013 Alec Ogletree     No            No                 No
##  2  2014 C.J. Mosley       Yes           Yes                No
##  3  2015 Stephone Anthony  No            No                 No
##  4  2016 Darron Lee        No            No                 No
```

```
##  5  2017 Reuben Foster     No            No                No
##  6  2017 Jarrad Davis      No            No                No
##  7  2018 Roquan Smith      Yes           No                Yes
##  8  2018 Rashaan Evans     No            No                No
##  9  2018 Tremaine Edmunds  Yes           Yes               No
## 10  2019 Devin Bush        No            No                No
## 11  2019 Devin White       Yes           No                No
```

```r
# Calculate the percentages for MLBs
total_mlbs <- nrow(MLBs)
still_starter_yes_percent_mlbs <- (sum(MLBs$Still_Starter == "Yes") / total_mlbs) * 100
multiple_pro_bowls_yes_percent_mlbs <- (sum(MLBs$Multiple_Pro_Bowls == "Yes") / total_mlbs) * 100
all_pro_yes_percent_mlbs <- (sum(MLBs$All_Pro == "Yes") / total_mlbs) * 100

# Print the percentages for MLBs
cat("Percentage of 'Still Starter - Yes' among Middle Linebackers:", still_starter_yes_percent_mlbs, "%
```

```
## Percentage of 'Still Starter - Yes' among Middle Linebackers: 36.36364 %
```

```r
cat("Percentage of 'Multiple Pro Bowls - Yes' among Middle Linebackers:", multiple_pro_bowls_yes_percen
```

```
## Percentage of 'Multiple Pro Bowls - Yes' among Middle Linebackers: 18.18182 %
```

```r
cat("Percentage of 'All-Pro - Yes' among Middle Linebackers:", all_pro_yes_percent_mlbs, "%\n")
```

```
## Percentage of 'All-Pro - Yes' among Middle Linebackers: 9.090909 %
```

```r
# Updated tibble for first-round NFL outside linebackers from 2013 to 2019
OLBs <- tibble(
  Year = c(2013, 2013, 2014, 2014, 2014, 2015, 2015, 2015, 2016, 2016, 2017, 2017, 2017, 2018, 2019, 20
  Outside_Linebacker = c("Barkevious Mingo", "Jarvis Jones",
                         "Ryan Shazier", "Khalil Mack", "Anthony Barr",
                         "Alvin Dupree", "Vic Beasley", "Shaq Thompson",
                         "Joey Bosa", "Leonard Floyd",
                         "Haason Reddick", "T.J. Watt", "Charles Harris",
                         "Leighton Vander Esch",
                         "Josh Allen", "Rashan Gary", "Brian Burns"),
  Still_Starter = c("No", "No",
                    "No", "Yes", "No",
                    "Yes", "No", "Yes",
                    "Yes", "Yes",
                    "Yes", "Yes", "No", "Yes",
                    "Yes", "Yes", "Yes"),
  Multiple_Pro_Bowls = c("No", "No",
                         "Yes", "Yes", "Yes",
                         "No", "No", "No",
                         "Yes", "No",
                         "No", "Yes", "No", "No",
                         "No", "No", "Yes"),
  All_Pro = c("No", "No",
              "No", "Yes", "No",
```

```
               "No", "Yes", "No",
               "No", "No",
               "No", "Yes", "No", "No",
               "No", "No", "No")
)

# View the updated tibble
print(OLBs)
```

```
## # A tibble: 17 x 5
##     Year Outside_Linebacker   Still_Starter Multiple_Pro_Bowls All_Pro
##    <dbl> <chr>                <chr>         <chr>              <chr>
##  1  2013 Barkevious Mingo     No            No                 No
##  2  2013 Jarvis Jones         No            No                 No
##  3  2014 Ryan Shazier         No            Yes                No
##  4  2014 Khalil Mack          Yes           Yes                Yes
##  5  2014 Anthony Barr         No            Yes                No
##  6  2015 Alvin Dupree         Yes           No                 No
##  7  2015 Vic Beasley          No            No                 Yes
##  8  2015 Shaq Thompson        Yes           No                 No
##  9  2016 Joey Bosa            Yes           Yes                No
## 10  2016 Leonard Floyd        Yes           No                 No
## 11  2017 Haason Reddick       Yes           No                 No
## 12  2017 T.J. Watt            Yes           Yes                Yes
## 13  2017 Charles Harris       No            No                 No
## 14  2018 Leighton Vander Esch Yes           No                 No
## 15  2019 Josh Allen           Yes           No                 No
## 16  2019 Rashan Gary          Yes           No                 No
## 17  2019 Brian Burns          Yes           Yes                No
```

```
# Calculate the percentages for OLBs
total_olbs <- nrow(OLBs)
still_starter_yes_percent_olbs <- (sum(OLBs$Still_Starter == "Yes") / total_olbs) * 100
multiple_pro_bowls_yes_percent_olbs <- (sum(OLBs$Multiple_Pro_Bowls == "Yes") / total_olbs) * 100
all_pro_yes_percent_olbs <- (sum(OLBs$All_Pro == "Yes") / total_olbs) * 100

# Print the percentages for OLBs
cat("Percentage of 'Still Starter - Yes' among Outside Linebackers:", still_starter_yes_percent_olbs, "
```

```
## Percentage of 'Still Starter - Yes' among Outside Linebackers: 64.70588 %
```

```
cat("Percentage of 'Multiple Pro Bowls - Yes' among Outside Linebackers:", multiple_pro_bowls_yes_percen
```

```
## Percentage of 'Multiple Pro Bowls - Yes' among Outside Linebackers: 35.29412 %
```

```
cat("Percentage of 'All-Pro - Yes' among Outside Linebackers:", all_pro_yes_percent_olbs, "%\n")
```

```
## Percentage of 'All-Pro - Yes' among Outside Linebackers: 17.64706 %
```

```r
# Updated tibble for first-round NFL safeties from 2013 to 2019
Safeties <- tibble(
  Year = c(2013, 2013, 2014, 2014, 2014, 2014, 2016, 2016, 2017, 2017, 2017, 2018, 2018, 2018, 2019, 20
  Safety = c("Kenny Vaccaro", "Eric Reid", "Calvin Pryor", "Ha Ha Clinton-Dix", "Deone Bucannon", "Jimm
             "Karl Joseph", "Keanu Neal", "Jamal Adams", "Malik Hooker", "Jabrill Peppers",
             "Derwin James", "Terrell Edmunds", "Minkah Fitzpatrick", "Darnell Savage", "Johnathan Abra
  Still_Starter = c("No", "No", "No", "No", "No", "Yes",
                    "No", "No", "Yes", "Yes", "Yes",
                    "Yes", "No", "Yes", "Yes", "No"),
  Multiple_Pro_Bowls = c("No", "No", "No", "No", "No", "No",
                         "No", "No", "Yes", "No", "No",
                         "Yes", "No", "Yes", "No", "No"),
  All_Pro = c("No", "No", "No", "No", "No", "No",
              "No", "No", "Yes", "No", "No",
              "Yes", "No", "Yes", "No", "No")
)

# View the updated tibble
print(Safeties)
```

```
## # A tibble: 16 x 5
##     Year Safety             Still_Starter Multiple_Pro_Bowls All_Pro
##    <dbl> <chr>              <chr>         <chr>               <chr>
##  1  2013 Kenny Vaccaro      No            No                  No
##  2  2013 Eric Reid          No            No                  No
##  3  2014 Calvin Pryor       No            No                  No
##  4  2014 Ha Ha Clinton-Dix  No            No                  No
##  5  2014 Deone Bucannon     No            No                  No
##  6  2014 Jimmie Ward        Yes           No                  No
##  7  2016 Karl Joseph        No            No                  No
##  8  2016 Keanu Neal         No            No                  No
##  9  2017 Jamal Adams        Yes           Yes                 Yes
## 10  2017 Malik Hooker       Yes           No                  No
## 11  2017 Jabrill Peppers    Yes           No                  No
## 12  2018 Derwin James       Yes           Yes                 Yes
## 13  2018 Terrell Edmunds    No            No                  No
## 14  2018 Minkah Fitzpatrick Yes           Yes                 Yes
## 15  2019 Darnell Savage     Yes           No                  No
## 16  2019 Johnathan Abram    No            No                  No
```

```r
# Calculate the percentages for Safeties
total_safeties <- nrow(Safeties)
still_starter_yes_percent_safeties <- (sum(Safeties$Still_Starter == "Yes") / total_safeties) * 100
multiple_pro_bowls_yes_percent_safeties <- (sum(Safeties$Multiple_Pro_Bowls == "Yes") / total_safeties)
all_pro_yes_percent_safeties <- (sum(Safeties$All_Pro == "Yes") / total_safeties) * 100

# Print the percentages for Safeties
cat("Percentage of 'Still Starter - Yes' among Safeties:", still_starter_yes_percent_safeties, "%\n")
```

```
## Percentage of 'Still Starter - Yes' among Safeties: 43.75 %
```

```r
cat("Percentage of 'Multiple Pro Bowls - Yes' among Safeties:", multiple_pro_bowls_yes_percent_safeties
```

```
## Percentage of 'Multiple Pro Bowls - Yes' among Safeties: 18.75 %
```

```r
cat("Percentage of 'All-Pro - Yes' among Safeties:", all_pro_yes_percent_safeties, "%\n")
```

```
## Percentage of 'All-Pro - Yes' among Safeties: 18.75 %
```

```r
library(tibble)
# Creating a tibble for the first-round NFL cornerbacks from 2013 to 2019
corners <- tibble(
  Year = c(2013, 2013, 2013, 2013, 2013, 2014, 2014, 2014, 2014, 2014, 2015, 2015, 2015, 2015, 2015, 20
  Cornerback = c("Xavier Rhodes", "Matt Elam", "Dee Milliner", "D.J. Hayden", "Desmond Trufant",
                 "Darqueeze Dennard", "Bradley Roby", "Justin Gilbert", "Kyle Fuller", "Jason Verrett",
                 "Byron Jones", "Damarious Randall", "Trae Waynes", "Kevin Johnson", "Marcus Peters",
                 "Jalen Ramsey", "Vernon Hargreaves", "Eli Apple", "William Jackson III", "Artie Burns"
                 "Marshon Lattimore", "Marlon Humphrey", "Adoree' Jackson",
                 "Denzel Ward", "Tre'Davious White", "Gareon Conley", "Jaire Alexander", "Mike Hughes",
                 "Deandre Baker", "Rock Ya-Sin", "Greedy Williams"),
  Still_Starter = c("No", "No", "No", "No", "No",
                    "No", "No", "No", "No", "No",
                    "No", "No", "No", "No", "Yes",
                    "Yes", "No", "Yes", "No", "No",
                    "Yes", "Yes", "Yes",
                    "Yes", "Yes", "No", "Yes", "No",
                    "No", "No", "No"),
 Multiple_Pro_Bowls = c("Yes", "No", "No", "No", "No",
                                    "No", "No", "No", "Yes", "No",
                                    "No", "No", "No", "No", "Yes",
                                    "Yes", "No", "No", "No", "No",
                                    "Yes", "Yes", "No",
                                    "Yes", "Yes", "No", "Yes", "No",
                                    "No", "No", "No"),

 All_Pro = c("Yes", "No", "No", "No", "No",
                          "No", "No", "No", "Yes", "No",
                          "No", "No", "No", "No", "Yes",
                          "Yes", "No", "No", "No", "No",
                          "No", "Yes", "No",
                          "No", "Yes", "No", "No", "No",
                          "No", "No", "No")
)

# View the tibble
print(corners)
```

```
## # A tibble: 31 x 5
##     Year Cornerback        Still_Starter Multiple_Pro_Bowls All_Pro
##    <dbl> <chr>             <chr>         <chr>              <chr>
##  1  2013 Xavier Rhodes     No            Yes                Yes
##  2  2013 Matt Elam         No            No                 No
```

```
##  3  2013 Dee Milliner      No            No                No
##  4  2013 D.J. Hayden       No            No                No
##  5  2013 Desmond Trufant   No            No                No
##  6  2014 Darqueeze Dennard No            No                No
##  7  2014 Bradley Roby      No            No                No
##  8  2014 Justin Gilbert    No            No                No
##  9  2014 Kyle Fuller       No            Yes               Yes
## 10  2014 Jason Verrett     No            No                No
## # i 21 more rows
```

```r
# Calculate the percentages for Corners
total_corners <- nrow(corners)
still_starter_yes_percent_corners <- (sum(corners$Still_Starter == "Yes") / total_corners) * 100
multiple_pro_bowls_yes_percent_corners <- (sum(corners$Multiple_Pro_Bowls == "Yes") / total_corners) * 
all_pro_yes_percent_corners<- (sum(corners$All_Pro == "Yes") / total_corners) * 100

# Print the percentages for Safeties
cat("Percentage of 'Still Starter - Yes' among Corners:", still_starter_yes_percent_corners, "%\n")
```

```
## Percentage of 'Still Starter - Yes' among Corners: 29.03226 %
```

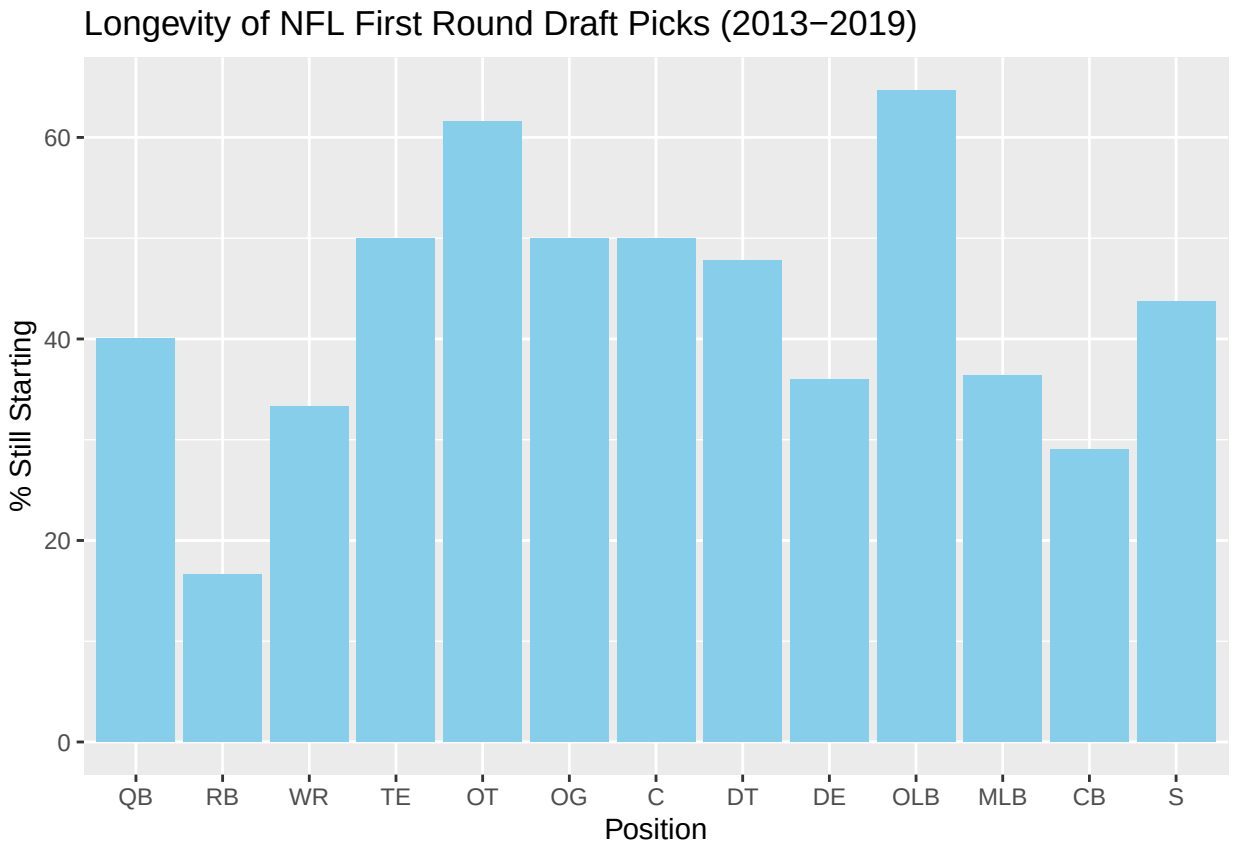
```r
cat("Percentage of 'Multiple Pro Bowls - Yes' among Corners:", multiple_pro_bowls_yes_percent_corners, 
```

```
## Percentage of 'Multiple Pro Bowls - Yes' among Corners: 29.03226 %
```

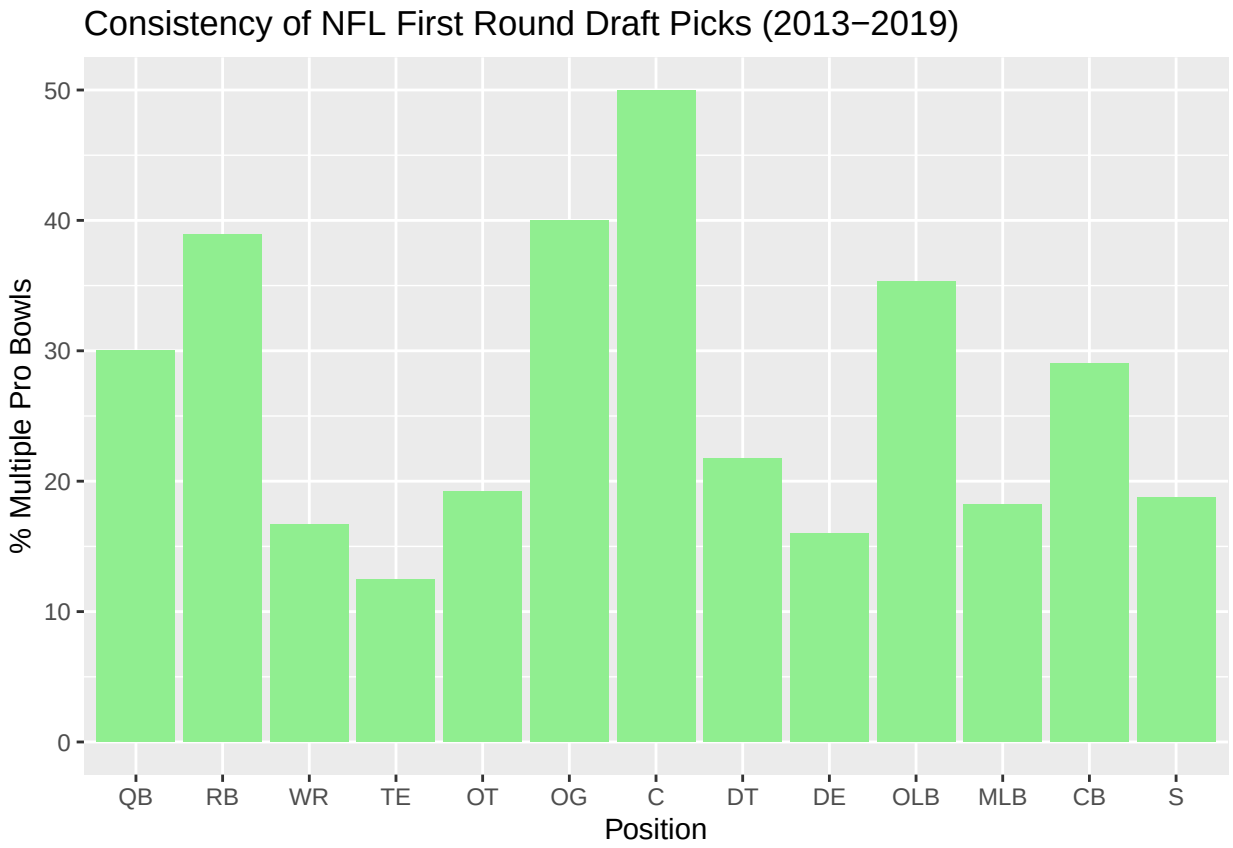
```r
cat("Percentage of 'All-Pro - Yes' among Corners:", all_pro_yes_percent_corners, "%\n")
```

```
## Percentage of 'All-Pro - Yes' among Corners: 19.35484 %
```

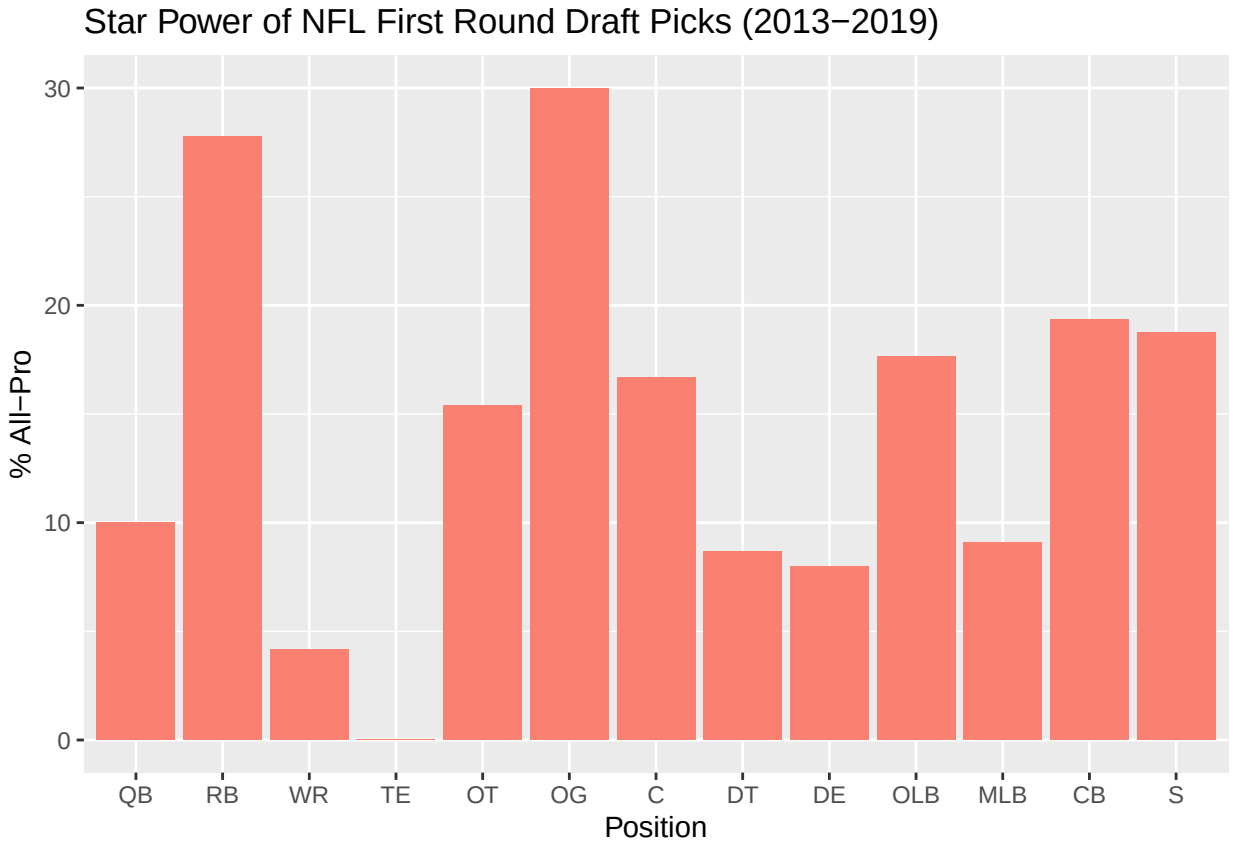
```r
# Load the ggplot2 package
library(ggplot2)

# Define the data
data <- data.frame(
  Position = factor(c("QB", "RB", "WR", "TE", "OT", "OG", "C", "DT", "DE", "OLB", "MLB", "CB", "S"),
                    levels = c("QB", "RB", "WR", "TE", "OT", "OG", "C", "DT", "DE", "OLB", "MLB", "CB",
  Longevity = c(40, 16.66667, 33.33333, 50, 61.53846, 50, 50, 47.82609, 36, 64.70588, 36.36364, 29.0322
  Consistency = c(30, 38.88889, 16.66667, 12.5, 19.23077, 40, 50, 21.73913, 16, 35.29412, 18.18182, 29.
  StarPower = c(10, 27.77778, 4.166667, 0, 15.38462, 30, 16.66667, 8.695652, 8, 17.64706, 9.090909, 19.
)

# Longevity plot
ggplot(data, aes(x = Position, y = Longevity)) +
  geom_bar(stat = "identity", fill = "skyblue") +
  labs(title = "Longevity of NFL First Round Draft Picks (2013-2019)", y = "% Still Starting")
```




```
# Consistency plot
ggplot(data, aes(x = Position, y = Consistency)) +
  geom_bar(stat = "identity", fill = "lightgreen") +
  labs(title = "Consistency of NFL First Round Draft Picks (2013-2019)", y = "% Multiple Pro Bowls")
```




```
# Star Power plot
ggplot(data, aes(x = Position, y = StarPower)) +
  geom_bar(stat = "identity", fill = "salmon") +
  labs(title = "Star Power of NFL First Round Draft Picks (2013-2019)", y = "% All-Pro")
```




```r
# Load necessary library
library(knitr)

# Data for the table
nfl_data <- data.frame(
  Position = c("OG", "OLB", "C", "OT", "RB", "S", "QB", "CB", "DT", "MLB", "TE", "DE", "WR"),
  Still_Starter = c(50, 65, 50, 62, 17, 44, 40, 29, 48, 36, 50, 36, 33),
  Longevity_Rank = c(4, 1, 4, 2, 13, 7, 8, 12, 6, 9.5, 4, 9.5, 11),
  Multiple_Pro_Bowls = c(40, 35, 50, 19, 39, 19, 30, 29, 22, 18, 12, 16, 17),
  Consistency_Rank = c(2, 4, 1, 8.5, 3, 8.5, 5, 6, 7, 10, 13, 12, 11),
  All_Pro = c(30, 18, 17, 15, 28, 19, 10, 19, 9, 9, 0, 8, 4),
  Star_Power_Rank = c(1, 5, 6, 7, 2, 3, 8, 3, 9.5, 9.5, 13, 11, 12),
  Total_Rank = c(7, 10, 11, 17.5, 18, 18.5, 21, 21, 22.5, 29, 30, 32.5, 34)
)

# Print the table
knitr::kable(nfl_data, format = "html", caption = "NFL Draft Picks Data (2013-2019)")
```

NFL Draft Picks Data (2013-2019)

Position

Still_Starter

Longevity_Rank

Multiple_Pro_Bowls

Consistency_Rank

All_Pro

Star_Power_Rank

Total_Rank

OG

50

4.0

40

2.0

30

1.0

7.0

OLB

65

1.0

35

4.0

18

5.0

10.0

C

50

4.0

50

1.0

17

6.0

11.0

OT

62

2.0

19

8.5

15

7.0

17.5

RB

17

13.0

39

3.0

28

2.0

18.0

S

44

7.0

19

8.5

19

3.0

18.5

QB

40

8.0

30

5.0

10

8.0

21.0

CB

29

12.0

29

6.0

19

3.0

21.0

DT

48

6.0

22

7.0

9

9.5

22.5

MLB

36

9.5

18

10.0

9

9.5

29.0

TE

50

4.0

12

13.0

0

13.0

30.0

DE

36

9.5

16

12.0

8

11.0

32.5

WR

33

11.0

17

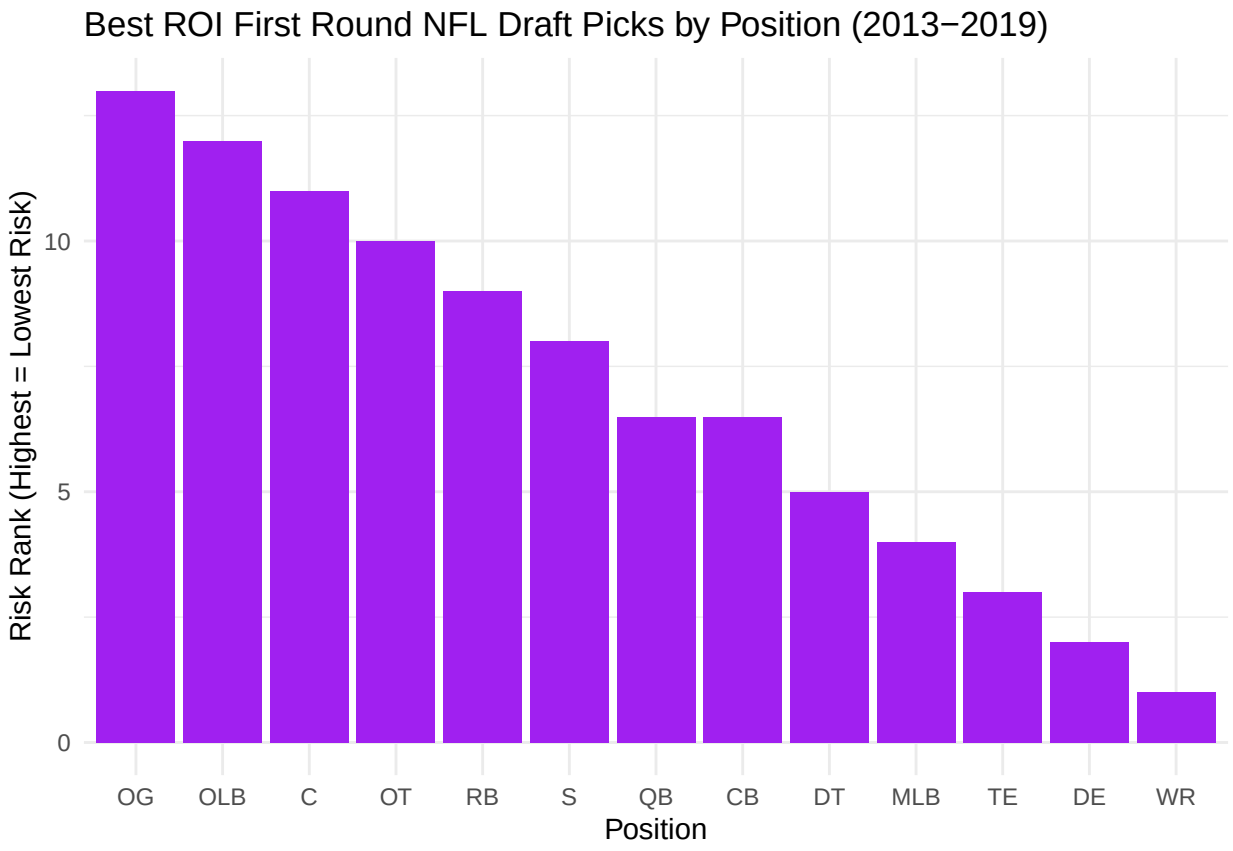
11.0

4

12.0

34.0

```r
# Load the ggplot2 package
library(ggplot2)

# Define the data with the specific order and total ranks
data <- data.frame(
  Position = factor(c("OG", "OLB", "C", "OT", "RB", "S", "QB", "CB", "DT", "MLB", "TE", "DE", "WR"),
                    levels = c("OG", "OLB", "C", "OT", "RB", "S", "QB", "CB", "DT", "MLB", "TE", "DE",
  TotalRank = c(7, 10, 11, 17.5, 18, 18.5, 21, 21, 22.5, 29, 30, 32.5, 34)  # Total Rank from the data
)

# Reversing the Total Rank to display lower risk as higher rank
data$RiskRank <- rank(-data$TotalRank)

# Plot the risk rank
ggplot(data, aes(x = Position, y = RiskRank)) +
  geom_bar(stat = "identity", fill = "purple") +
  labs(title = "Best ROI First Round NFL Draft Picks by Position (2013-2019)", y = "Risk Rank (Highest +
  theme_minimal()
```




```r
# Note: The 'RiskRank' is calculated by reversing the Total Rank, so lower Total Rank means lower risk.
```