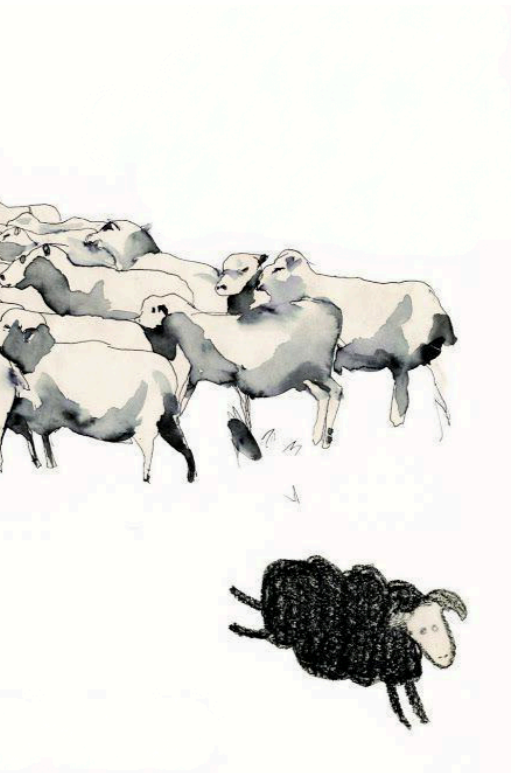


NFL **Week 15**

bye teams:

Report created by Brian Lincoln
lincoln@profootballassetallocation.com

All data from Pro Football Reference
https://www.pro-football-reference.com/

Image credit Cynthia Connoly
https://www.cynthiaconnolly.com/

POSR

Player Origin Snaps Report

Jump-To

- Leaguewide Pages
- Team Pages
- Methodology

Introduction

This is a report about what type of NFL player gets the most snaps. There are only three types of players on an NFL roster:

1. Homegrown Picks
2. Drafted Elsewhere
3. Undrafted

Special cases exist but ultimately every player is 1, 2, or 3. It can be shown when homegrown picks get more snaps there are better team outcomes: higher winning percentage, more playoff success, and longer head coach tenures. Conversely, teams that play more undrafted players have less success. And snaps to players drafted elsewhere appear to have almost no relationship to team success.

Correlation is not always causation. But the idea that more snaps to more Homegrown Picks is a good thing should be self-evident. When we consider its implications we can see it really does affect (and reflect) everything. And here we measure it.

Leaguewide

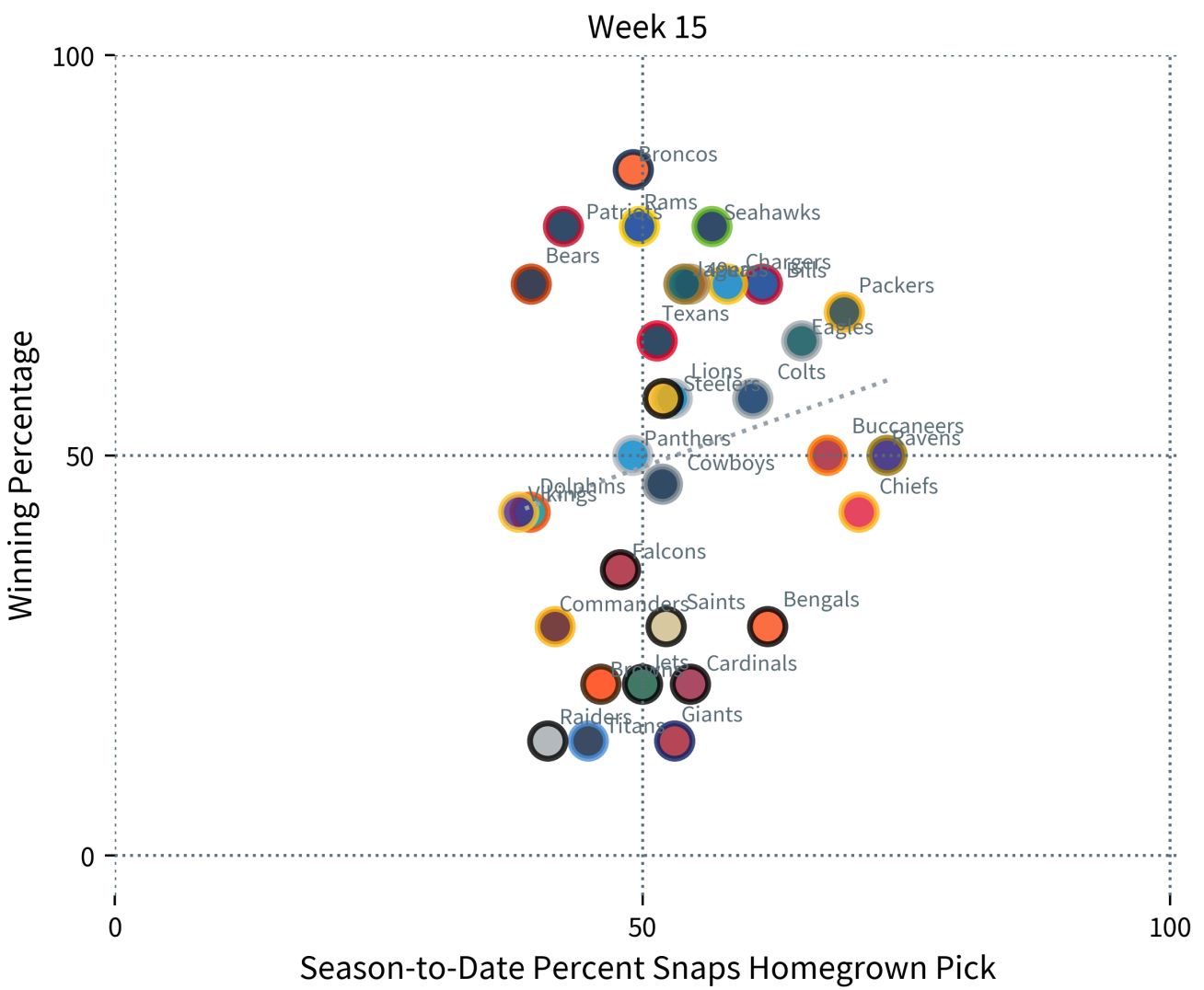
Pages

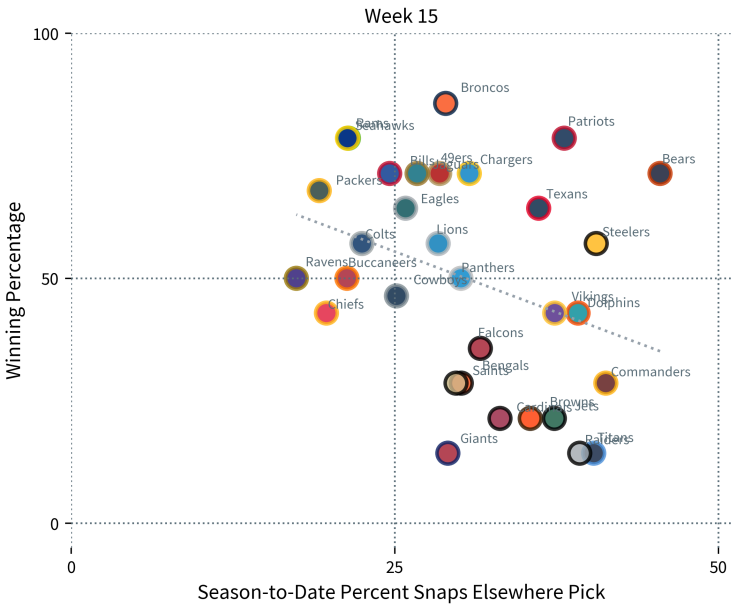
Leaguewide Season-to-Date Player Origin Snap Percentages

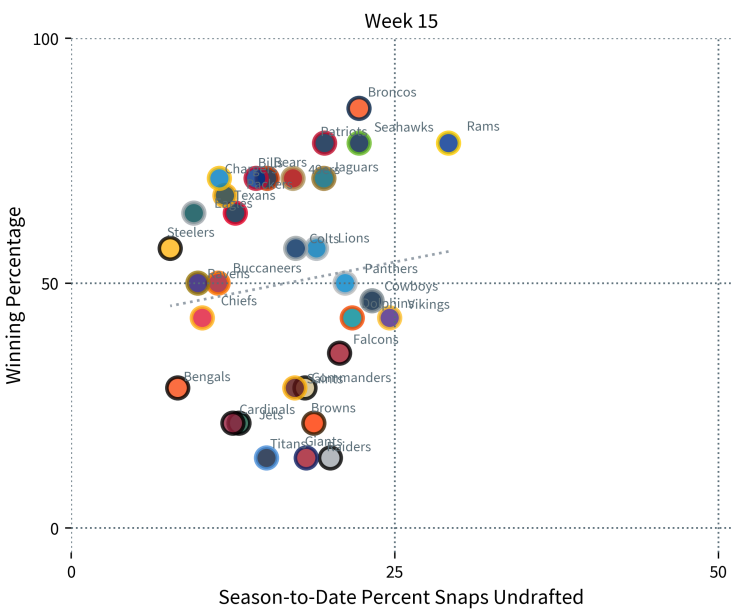
Table shows season-to-date snap percentages for each player origin. For definition and methodology of percentages of snaps jump here. Table is ranked by homegrown picks. It can be shown this type of player has the most effect on team outcomes. We will see this on the scatters page as the season develops.

Homegrown Pick Rank	Team	Homegrown Pick	Elsewhere Pick	Undrafted
1	Ravens	72.9	17.3	9.7
2	Chiefs	70.3	19.6	10.1
3	Packers	69.0	19.1	11.9
4	Buccaneers	67.4	21.3	11.3
5	Eagles	64.8	25.7	9.4
6	Bengals	61.7	30.1	8.2
7	Bills	61.2	24.5	14.2
8	Colts	60.3	22.4	17.3
9	Chargers	57.9	30.7	11.4
10	Seahawks	56.4	21.4	22.2
11	Cardinals	54.5	33.1	12.5
12	49ers	54.4	28.4	17.1
13	Jaguars	53.8	26.7	19.5
14	Giants	52.9	29.0	18.1
15	Lions	52.8	28.3	18.9
16	Saints	52.2	29.7	18.1
17	Steelers	51.9	40.5	7.6
18	Cowboys	51.8	25.1	23.2
19	Texans	51.3	36.0	12.7
20	Jets	49.9	37.2	12.9
21	Rams	49.6	21.3	29.1
22	Broncos	49.0	28.8	22.2
23	Panthers	48.9	30.0	21.1
24	Falcons	47.8	31.5	20.7
25	Browns	45.9	35.4	18.7
26	Titans	44.7	40.2	15.0
27	Patriots	42.4	38.0	19.5
28	Commanders	41.6	41.2	17.2
29	Raiders	40.9	39.2	20.0
30	Bears	39.4	45.5	15.1
31	Dolphins	39.3	39.1	21.7
32	Vikings	38.2	37.3	24.5

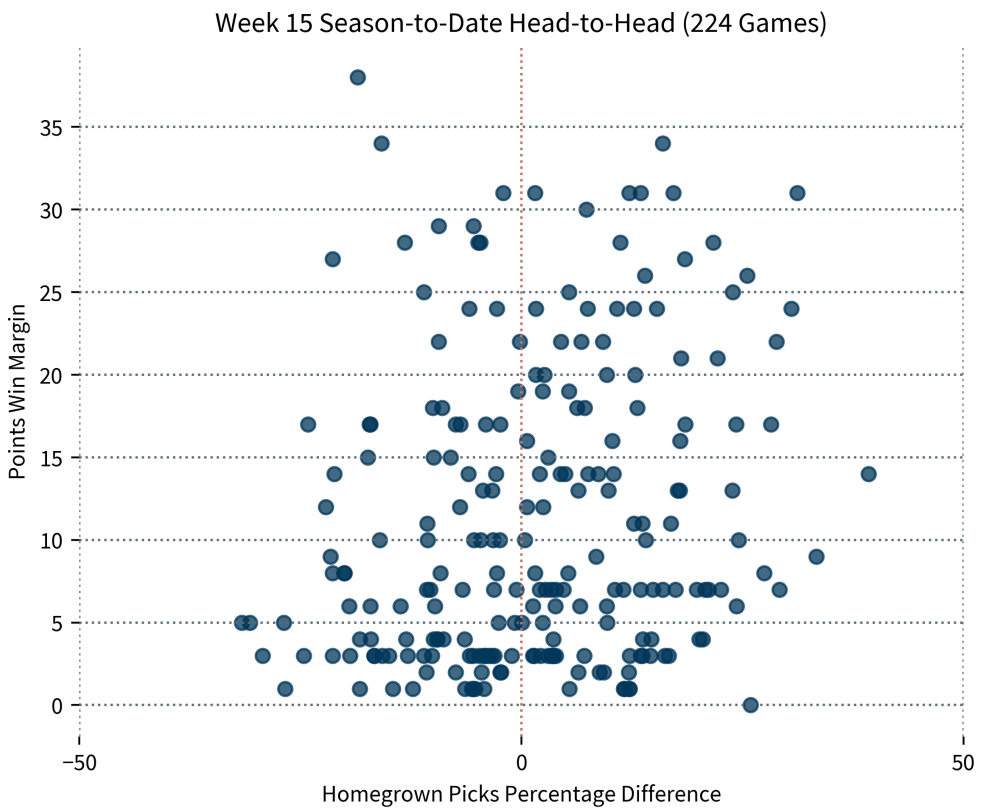
Leaguewide Season-to-Date Player Origin Snap and Winning Percentages

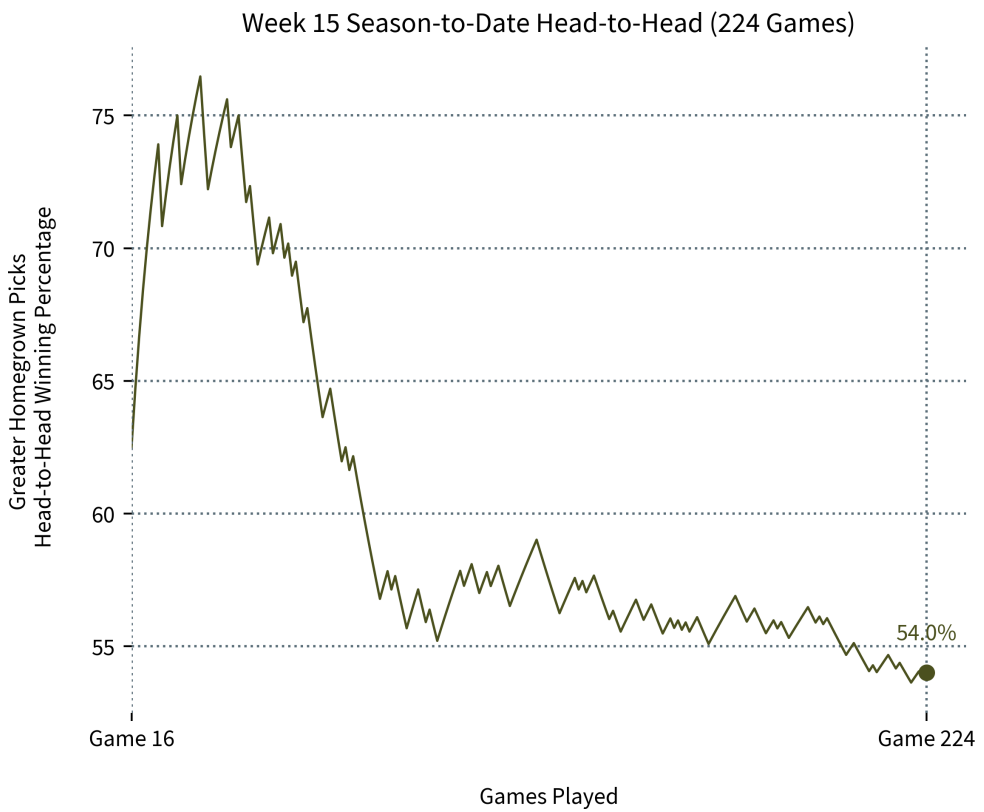






Leaguewide Season-to-Date Homegrown Picks Head-to-Head

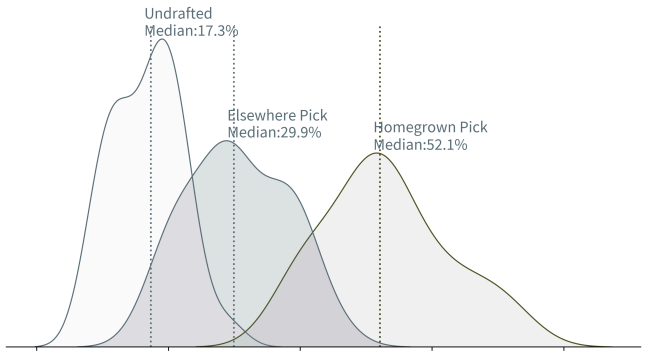




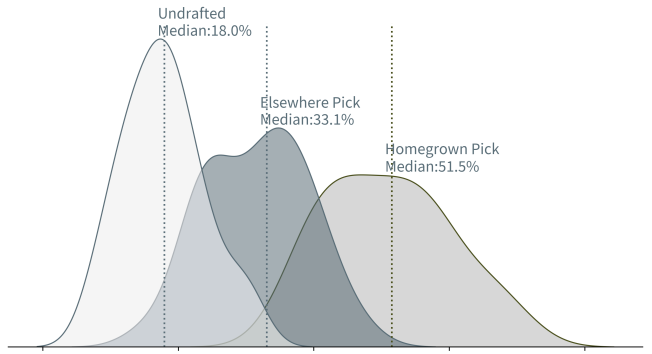
Season-to-date win percentage of higher homegrown picks percentage versus lower homegrown picks percentage

54.0%

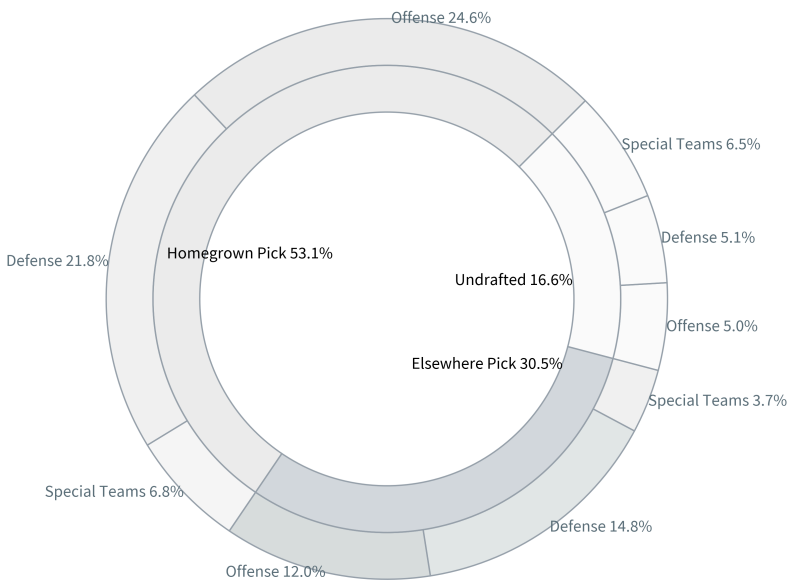
Leaguewide Season-to-Date and Week Player Origin Snap Percentages



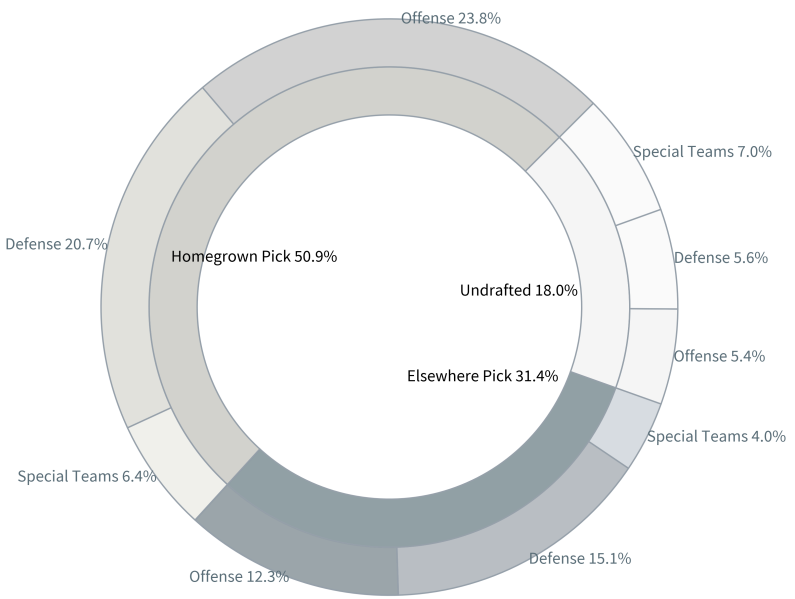
Leaguewide Season Percentage of Snaps (224 Games)



Leaguewide Week 15 Percentage of Snaps (16 Games)



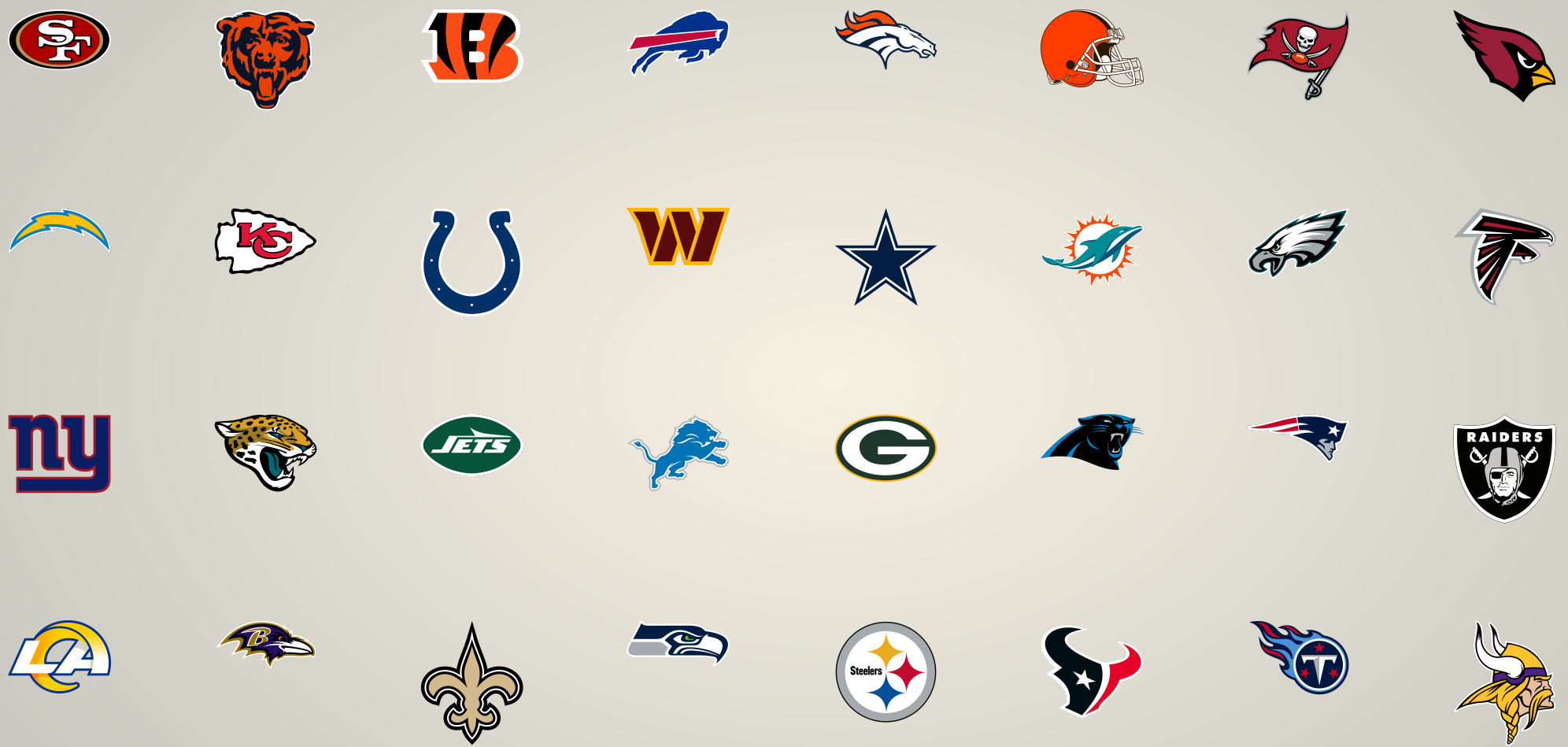
Leaguewide Season Percentage of Snaps (224 Games)

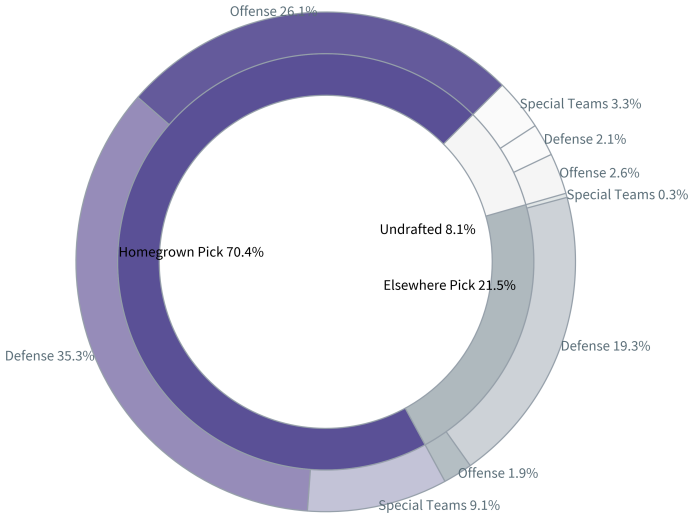


Leaguwide Week 15 Percentage of Snaps (16 Games)

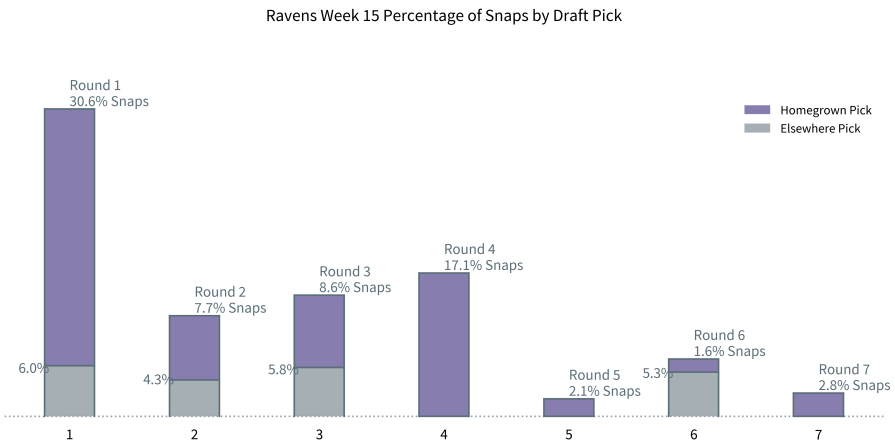
Leaguewide Weekly Snap Percentages by Player Origin and Draft Round

	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18
Homegrown Pick Percentage	55.4%	54.9%	53.9%	54.1%	53.3%	52.9%	52.1%	53.7%	53.7%	52.0%	52.8%	51.9%	52.2%	53.2%	50.9%			
Elsewhere Pick Percentage	31.6%	30.5%	29.6%	29.2%	30.0%	31.0%	31.4%	29.6%	29.3%	30.8%	30.1%	30.5%	31.3%	30.3%	31.4%			
Undrafted Percentage	13.3%	14.9%	16.7%	17.0%	17.0%	16.3%	16.6%	17.0%	17.3%	17.4%	17.4%	17.9%	16.8%	16.6%	18.0%			
Homegrown Pick R1	16.6%	16.3%	15.6%	15.6%	14.0%	14.7%	15.1%	15.4%	15.4%	15.1%	14.5%	14.3%	14.6%	14.2%	13.7%			
Homegrown Pick R2	11.7%	11.0%	11.1%	11.5%	11.3%	11.5%	10.9%	11.2%	11.1%	10.7%	10.5%	10.7%	11.0%	11.9%	10.9%			
Homegrown Pick R3	8.7%	8.7%	8.5%	8.3%	9.2%	8.7%	7.7%	8.0%	8.5%	8.4%	8.5%	8.9%	8.7%	8.5%	8.6%			
Homegrown Pick R4	6.4%	7.0%	6.8%	6.7%	6.8%	6.9%	6.6%	6.8%	6.6%	6.5%	7.1%	7.1%	6.7%	6.7%	6.4%			
Homegrown Pick R5	5.5%	5.5%	5.5%	5.3%	5.6%	5.0%	5.5%	5.6%	5.4%	5.4%	5.8%	4.9%	5.0%	5.4%	5.1%			
Homegrown Pick R6	3.4%	3.5%	3.9%	3.8%	3.9%	3.1%	3.7%	3.5%	3.6%	3.0%	3.7%	3.2%	3.2%	3.3%	3.3%			
Homegrown Pick R7	2.1%	2.4%	2.5%	2.8%	2.5%	3.1%	2.6%	3.0%	2.8%	2.9%	2.7%	2.9%	2.9%	3.1%	2.9%			
Elsewhere Pick R1	6.7%	6.2%	6.2%	6.2%	6.0%	6.7%	7.0%	6.6%	6.4%	6.8%	6.3%	5.8%	6.6%	6.5%	6.3%			
Elsewhere Pick R2	5.3%	5.3%	5.1%	5.0%	5.0%	5.7%	5.4%	5.2%	4.9%	5.6%	5.4%	5.9%	5.2%	5.0%	5.1%			
Elsewhere Pick R3	6.6%	6.7%	6.2%	5.8%	6.1%	6.5%	5.9%	6.1%	5.9%	5.9%	5.7%	6.1%	7.0%	6.6%	6.5%			
Elsewhere Pick R4	4.3%	4.1%	4.6%	4.7%	5.2%	4.3%	4.6%	3.8%	3.9%	4.1%	4.1%	4.3%	4.2%	4.4%	4.7%			
Elsewhere Pick R5	3.1%	3.4%	3.3%	3.1%	3.1%	3.4%	3.3%	3.3%	2.9%	3.6%	3.5%	3.2%	3.2%	2.9%	3.1%			
Elsewhere Pick R6	2.3%	2.4%	2.5%	2.6%	3.0%	2.6%	3.2%	2.7%	2.6%	2.5%	2.5%	3.0%	2.9%	2.7%	3.2%			
Elsewhere Pick R7	1.6%	1.5%	1.6%	1.6%	1.6%	1.9%	2.0%	1.9%	1.8%	2.2%	2.2%	2.1%	2.0%	2.3%	2.4%			


SF
JETS
RAIDERS
Steelers



Ravens Week 15 Percentage of Snaps



Homegrown Picks Rank

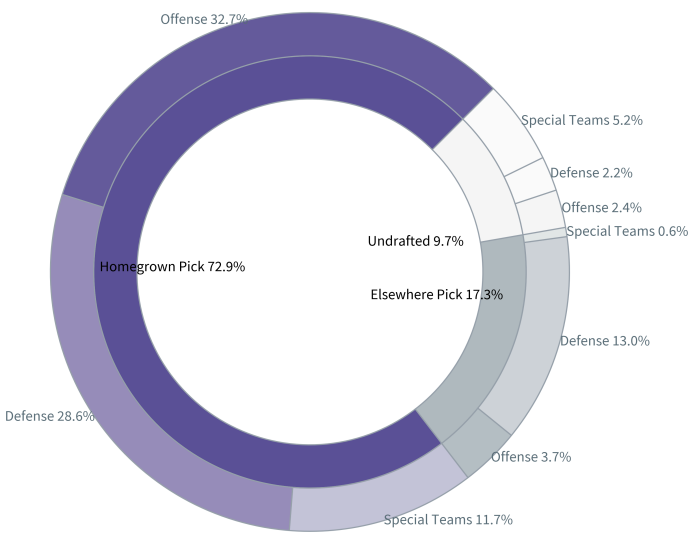
1

Elsewhere Picks Rank

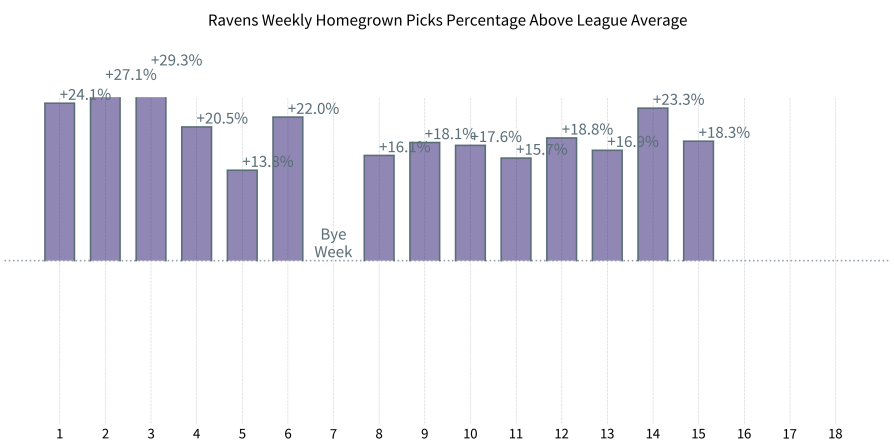
32

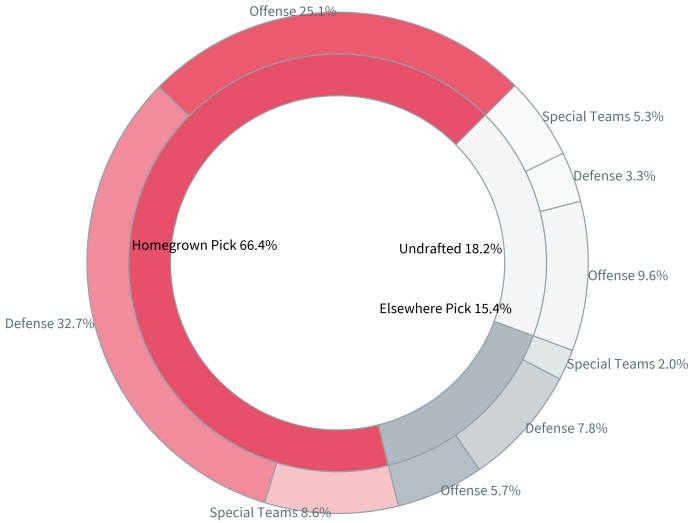
Undrafted Rank

29

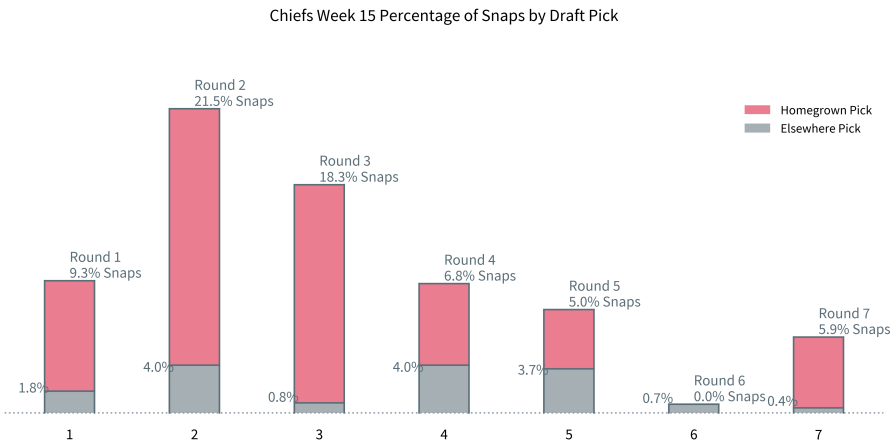


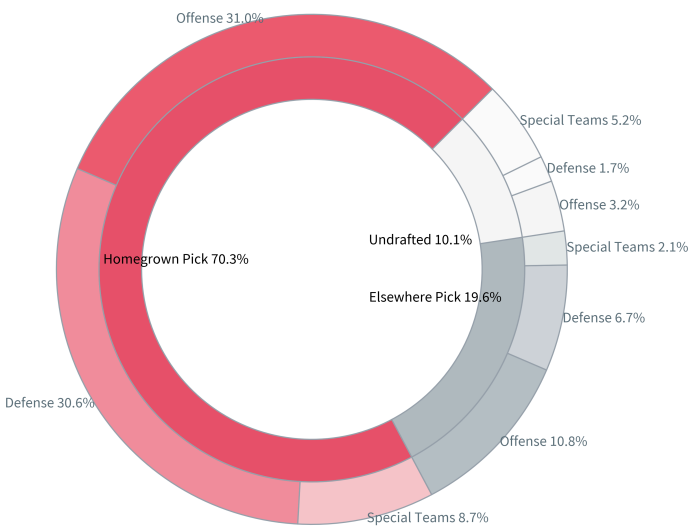
Ravens Season (Through 14 Games) Percentage of Snaps



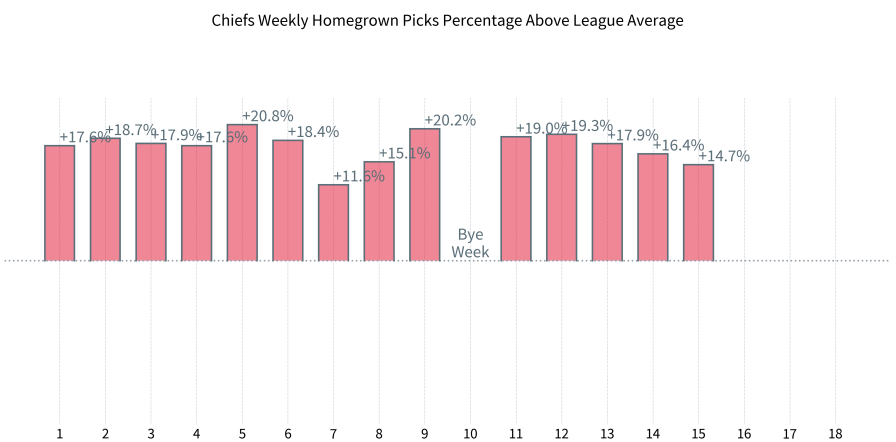


Chiefs Week 15 Percentage of Snaps





Chiefs Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

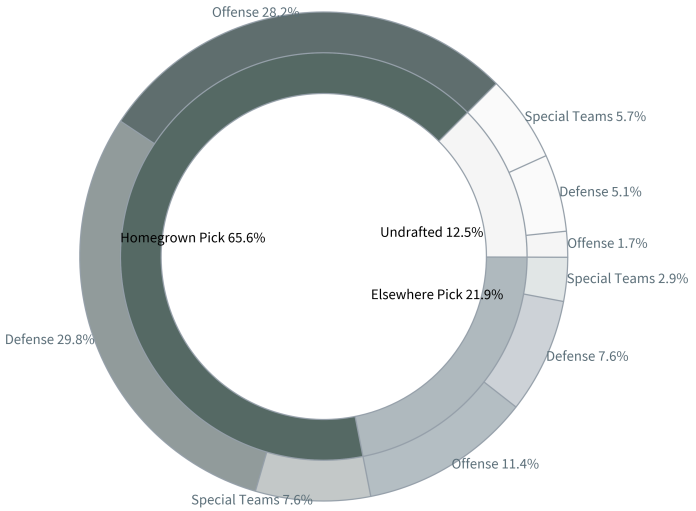
2

Elsewhere Picks Rank

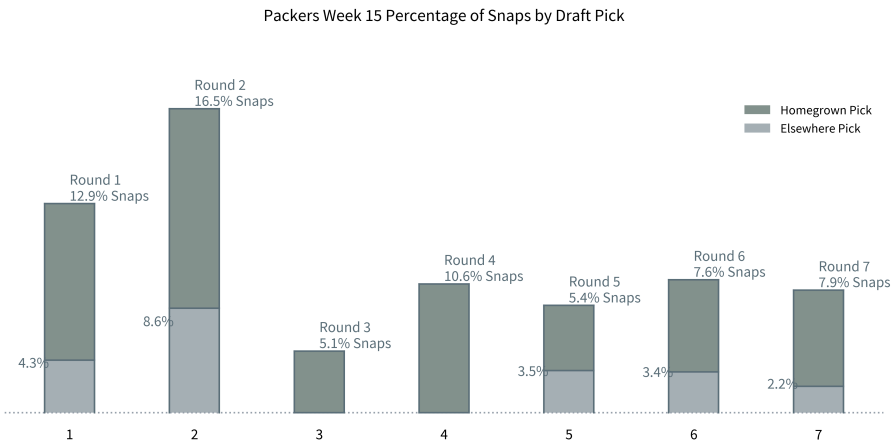
30

Undrafted Rank

28



Packers Week 15 Percentage of Snaps



Homegrown Picks Rank

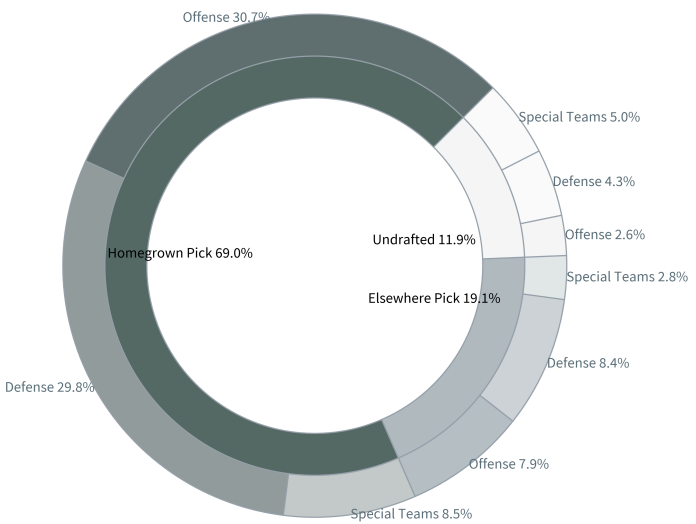
3

Elsewhere Picks Rank

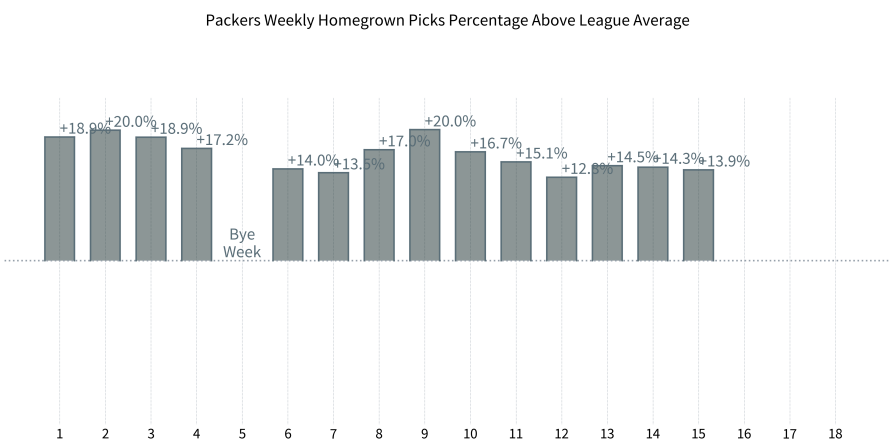
31

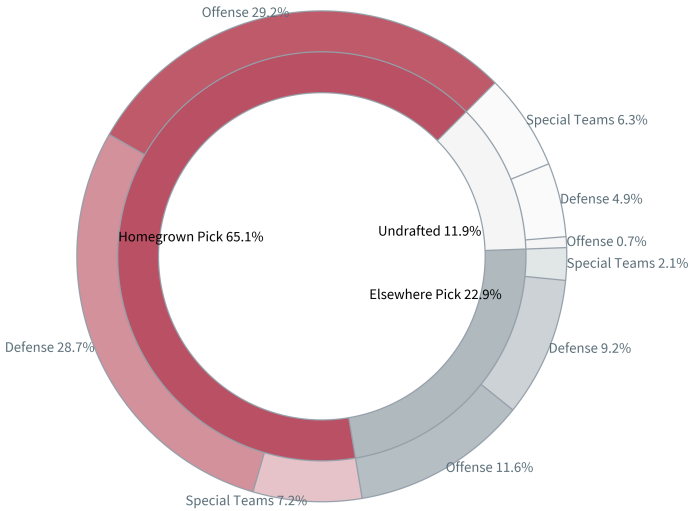
Undrafted Rank

25

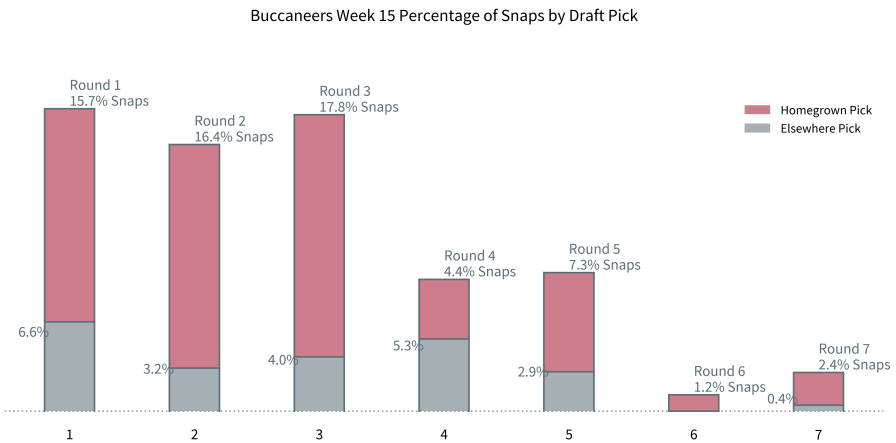


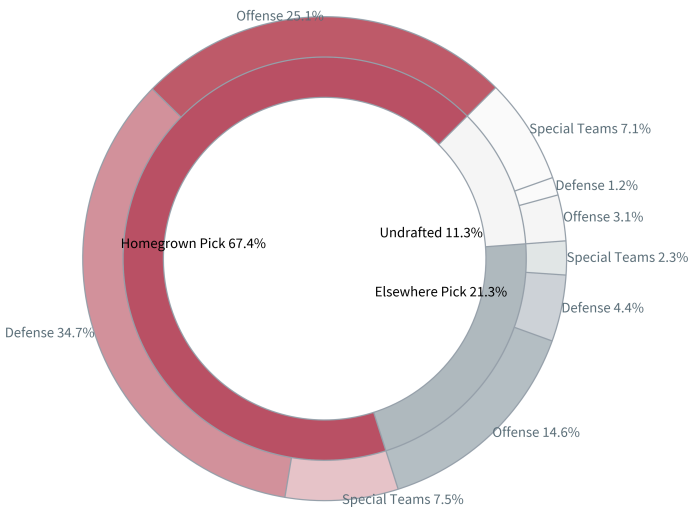
Packers Season (Through 14 Games) Percentage of Snaps



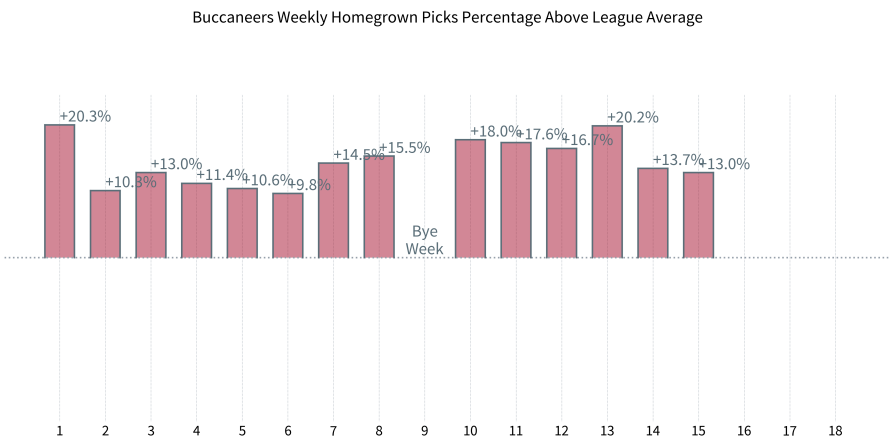


Buccaneers Week 15 Percentage of Snaps





Buccaneers Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

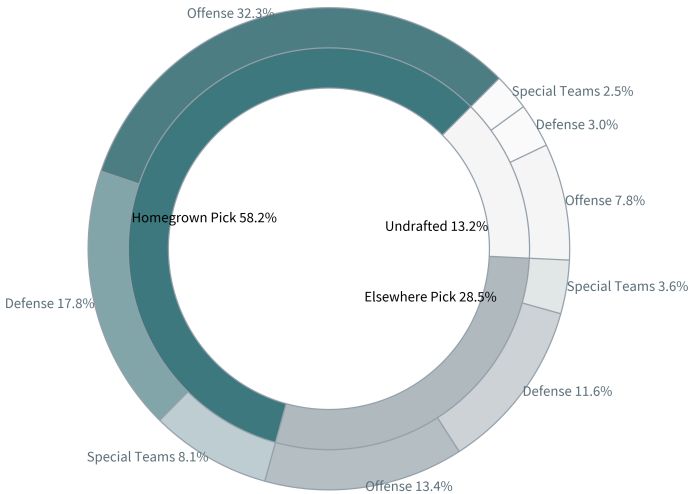
4

Elsewhere Picks Rank

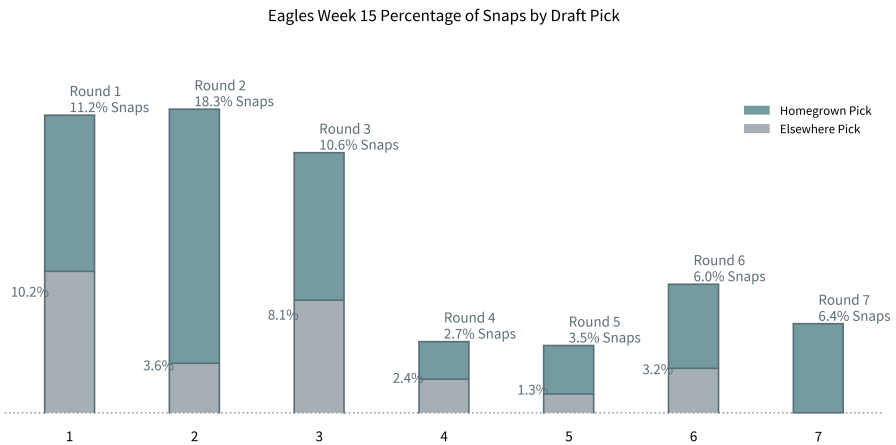
28

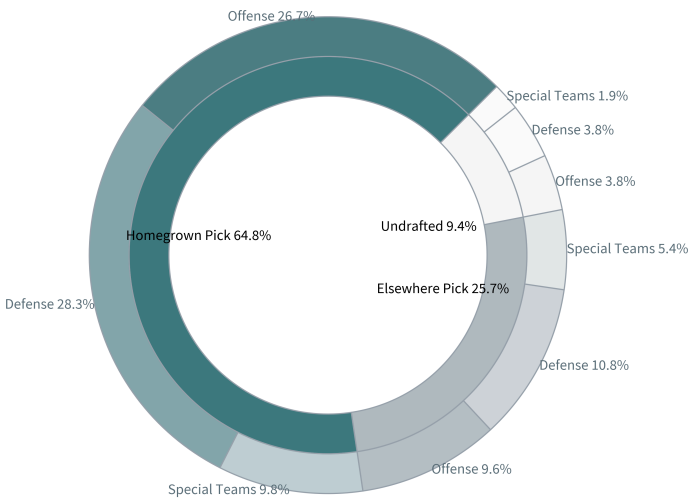
Undrafted Rank

27

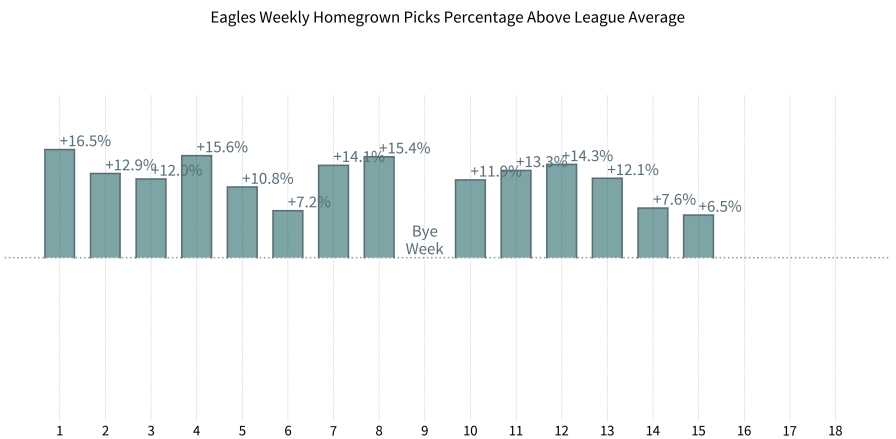


Eagles Week 15 Percentage of Snaps





Eagles Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

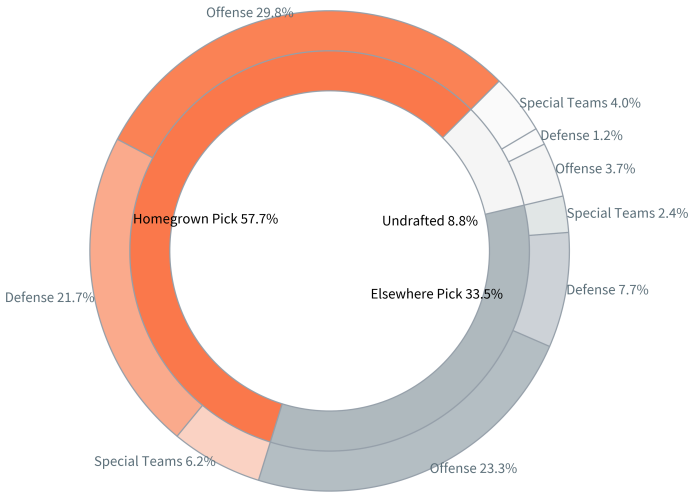
5

Elsewhere Picks Rank

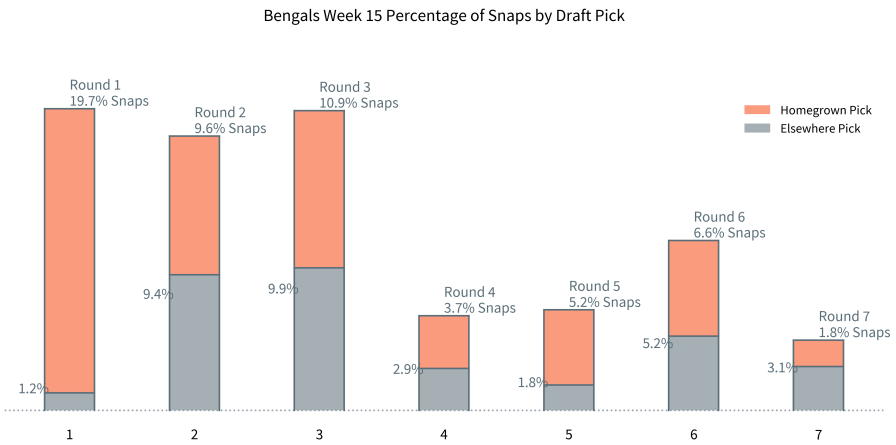
23

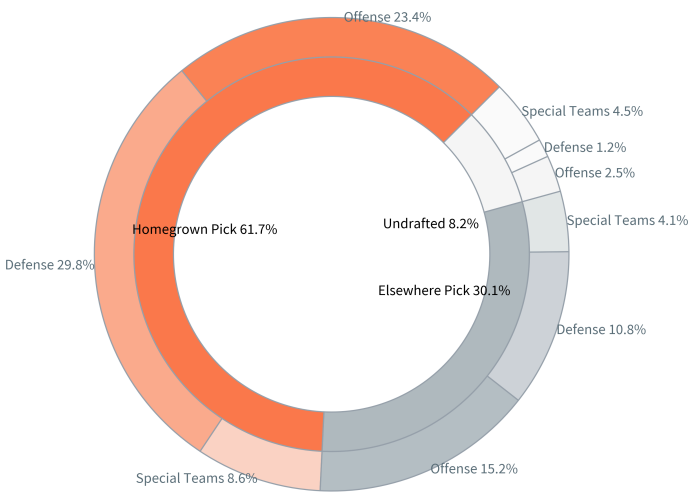
Undrafted Rank

30

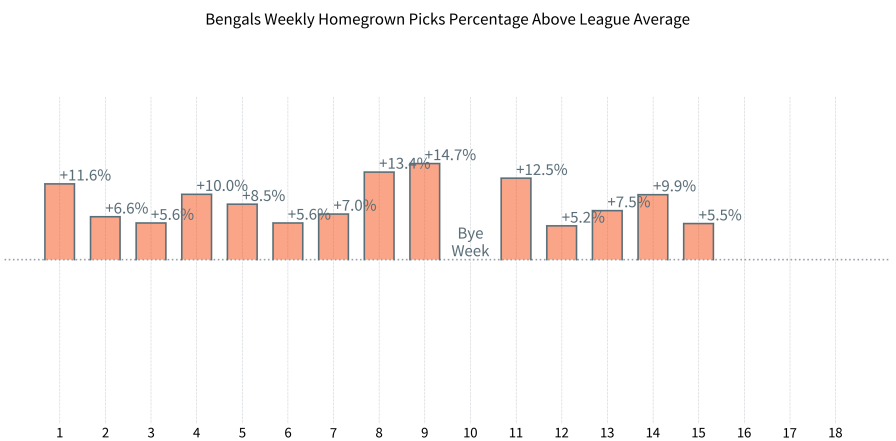


Bengals Week 15 Percentage of Snaps





Bengals Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

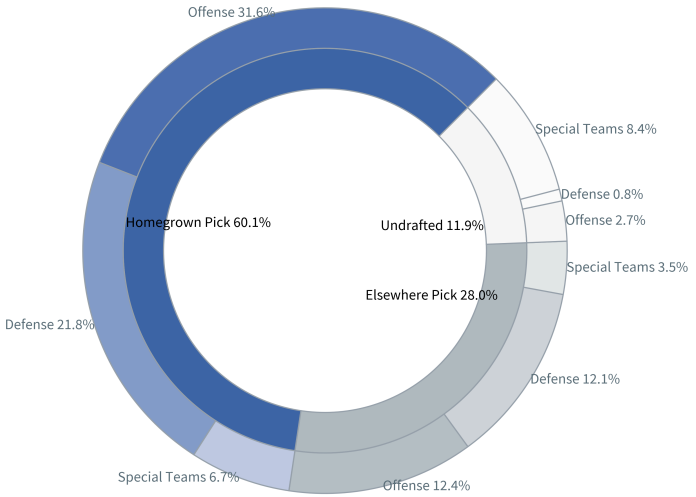
6

Elsewhere Picks Rank

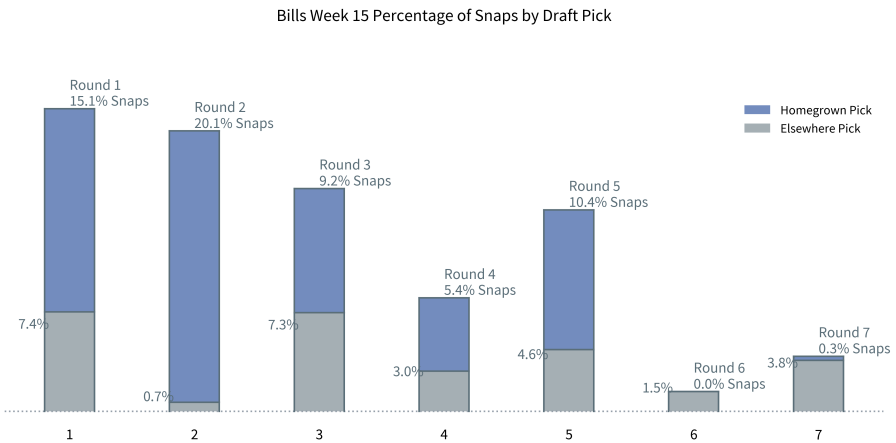
15

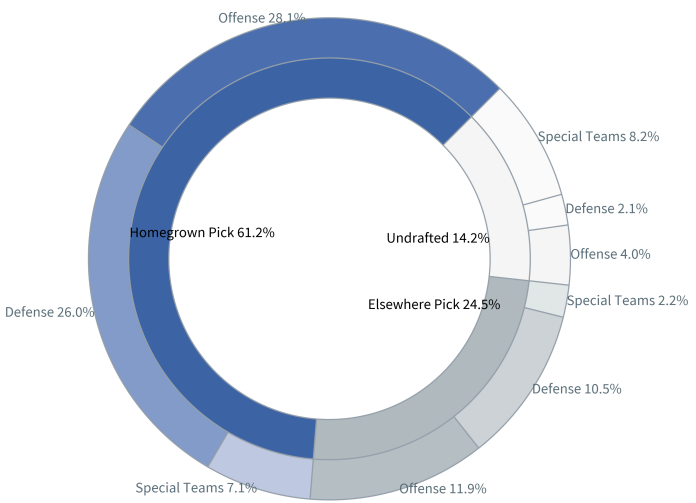
Undrafted Rank

31

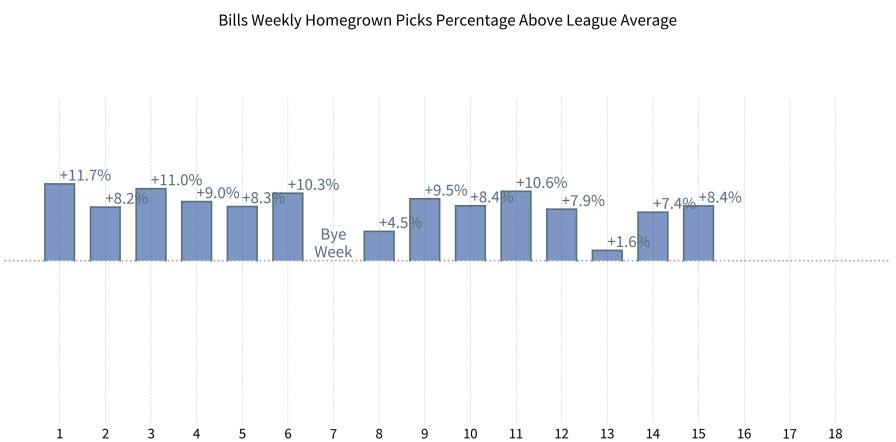


Bills Week 15 Percentage of Snaps





Bills Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

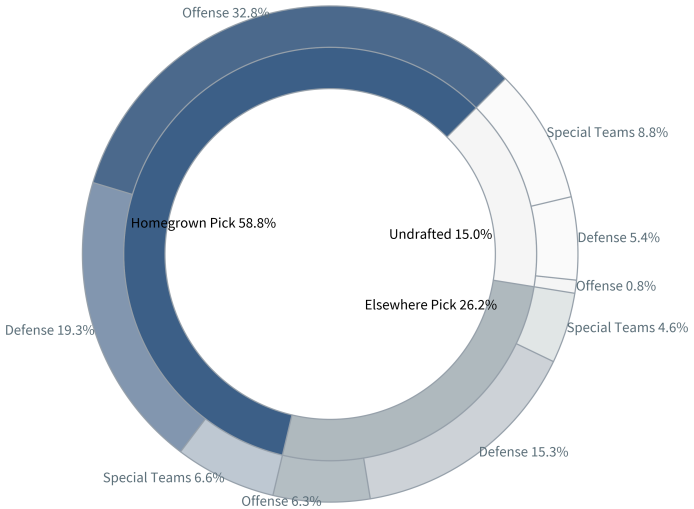
7

Elsewhere Picks Rank

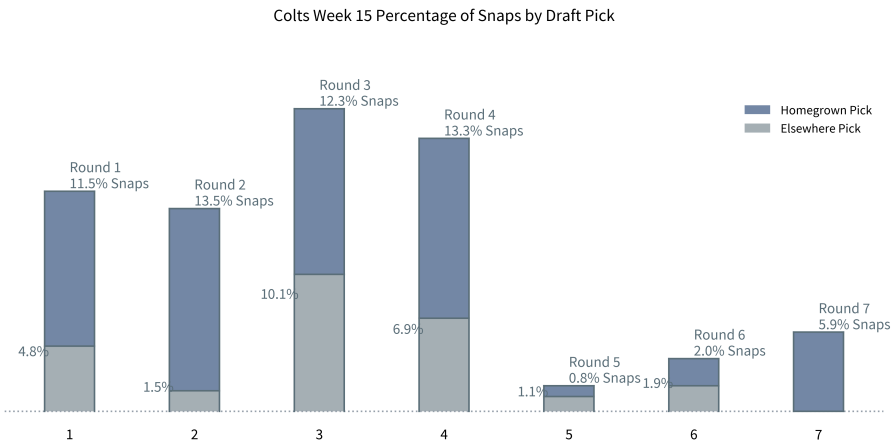
25

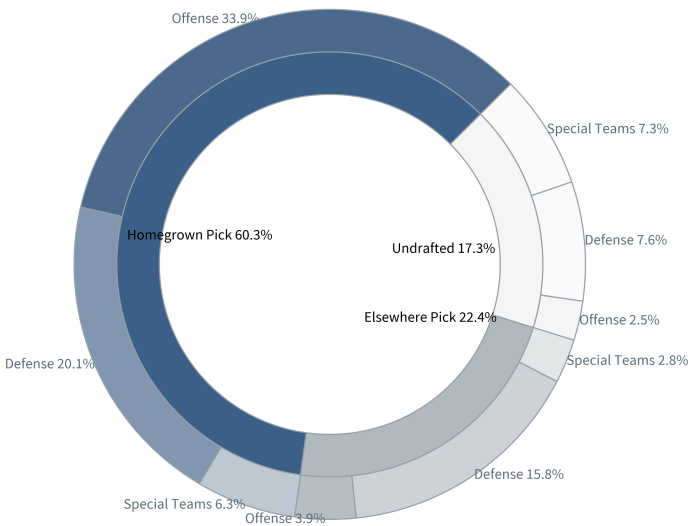
Undrafted Rank

21

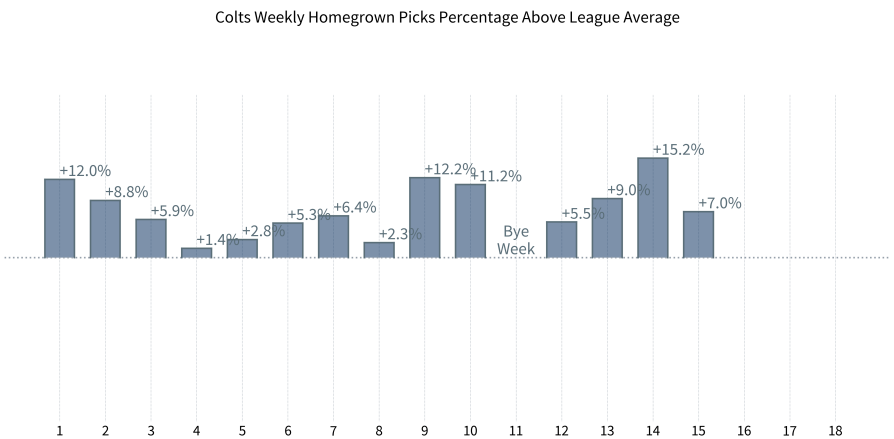


Colts Week 15 Percentage of Snaps





Colts Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

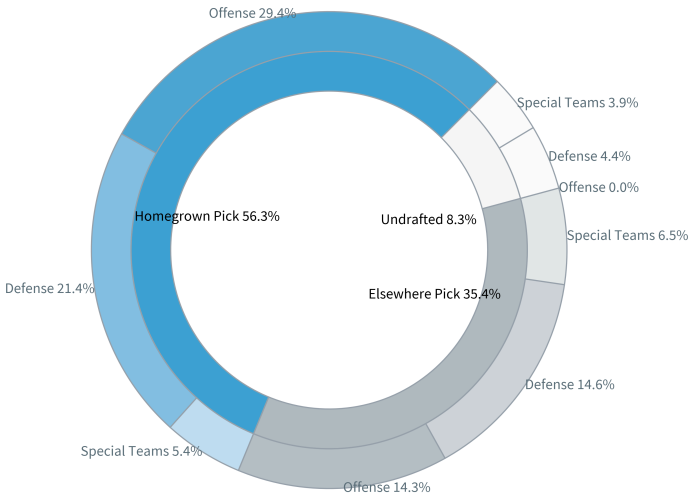
8

Elsewhere Picks Rank

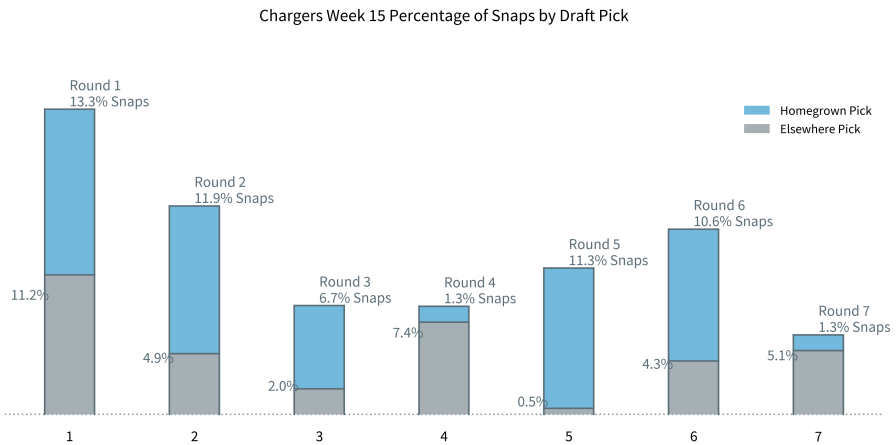
26

Undrafted Rank

16



Chargers Week 15 Percentage of Snaps



Homegrown Picks Rank

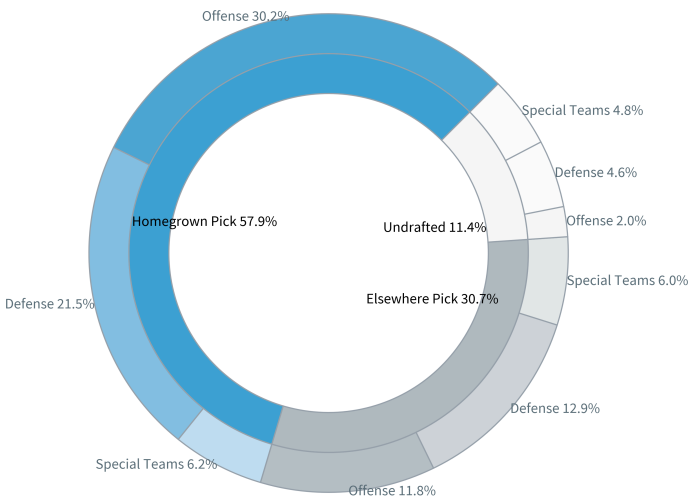
9

Elsewhere Picks Rank

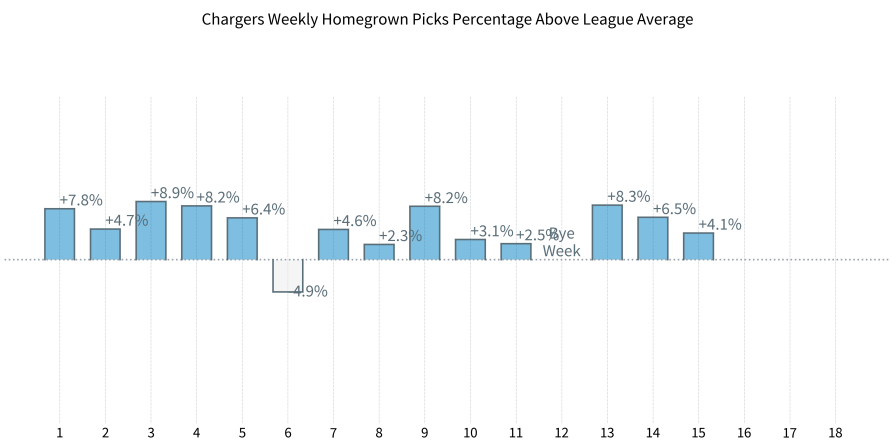
14

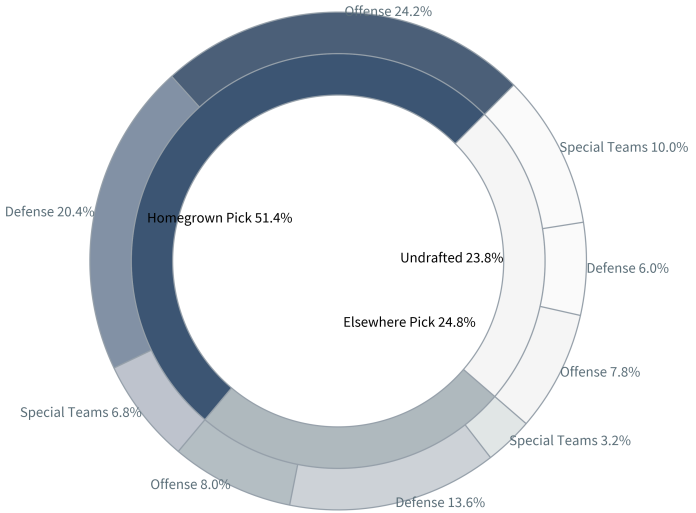
Undrafted Rank

26

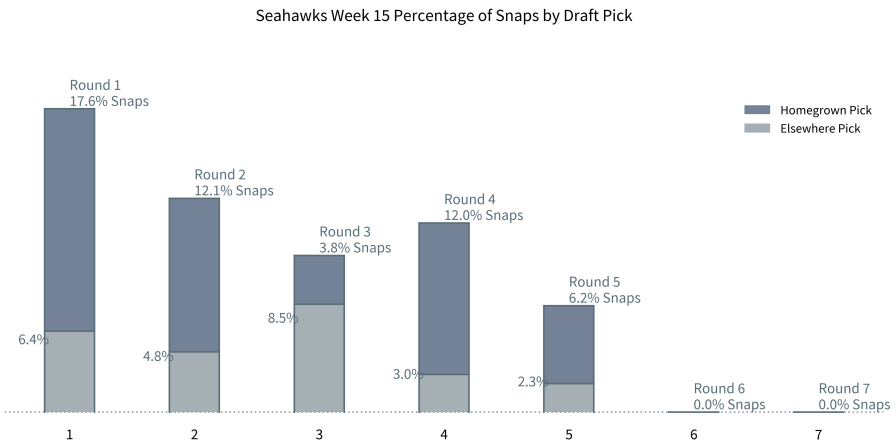


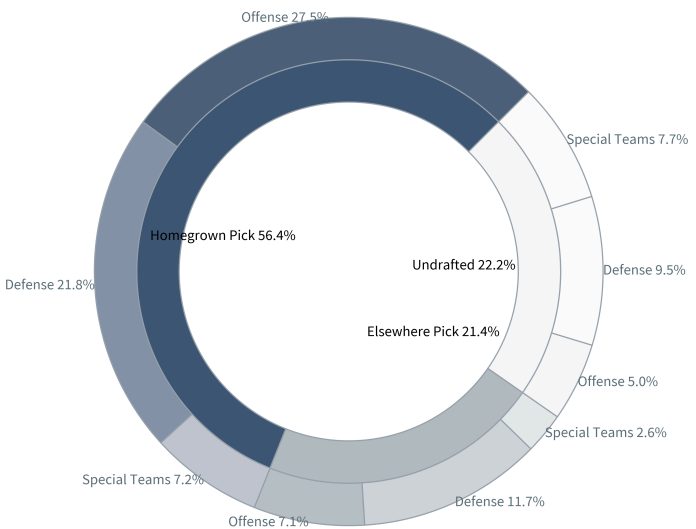
Chargers Season (Through 14 Games) Percentage of Snaps



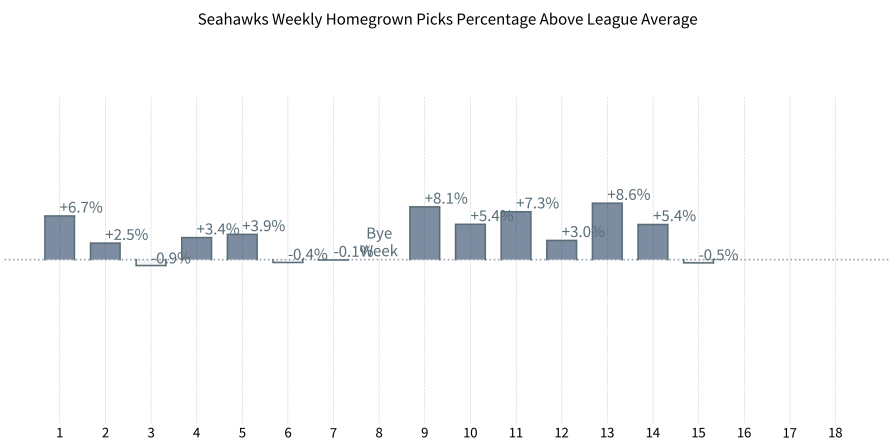


Seahawks Week 15 Percentage of Snaps





Seahawks Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

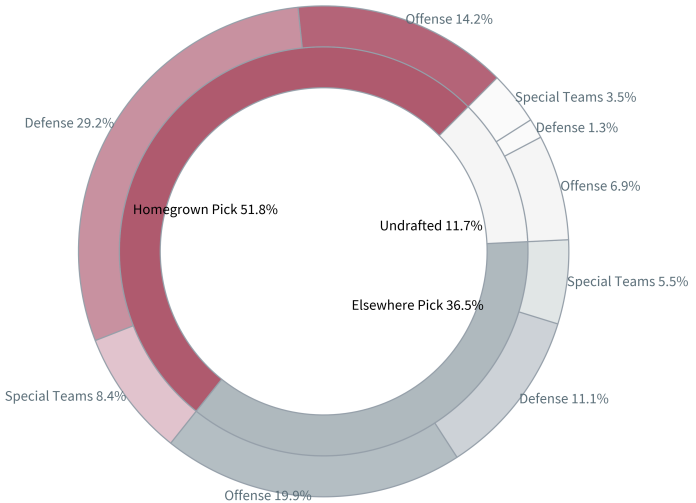
10

Elsewhere Picks Rank

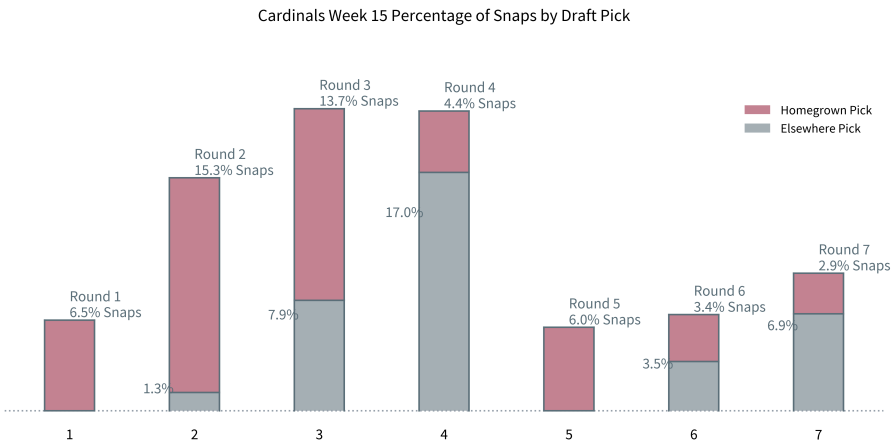
27

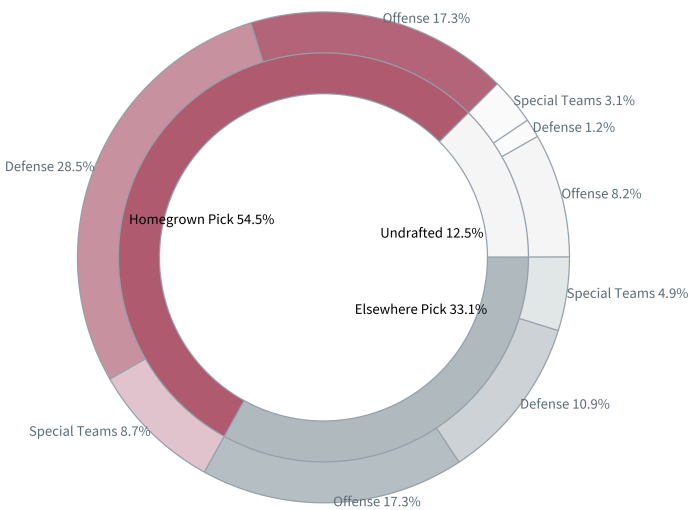
Undrafted Rank

4

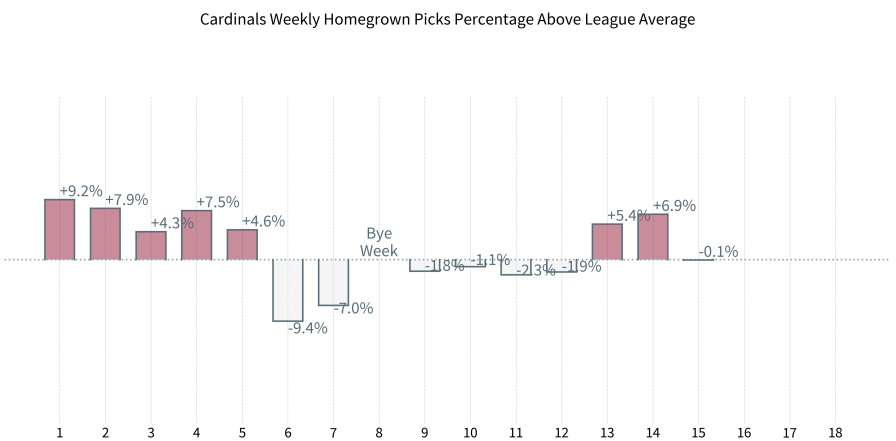


Cardinals Week 15 Percentage of Snaps





Cardinals Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

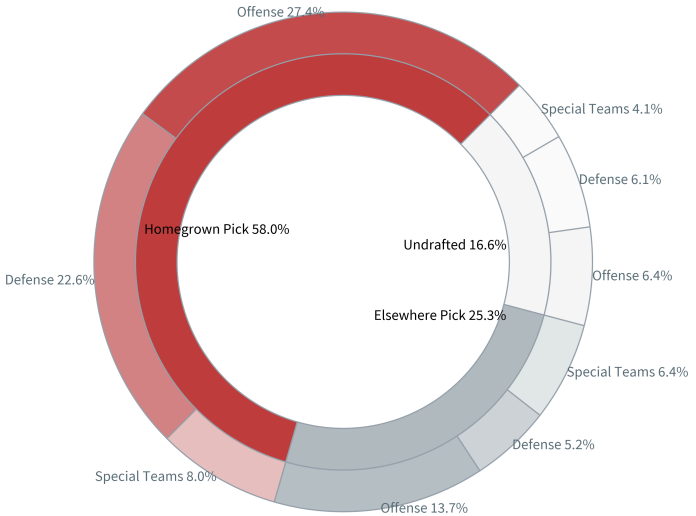
11

Elsewhere Picks Rank

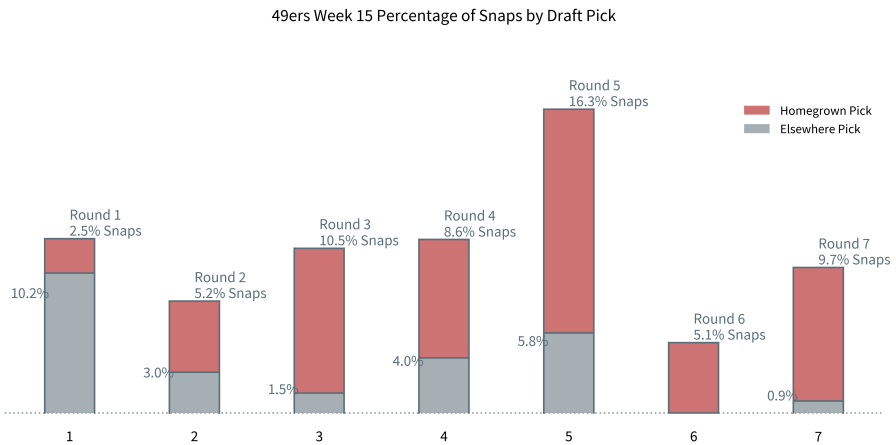
12

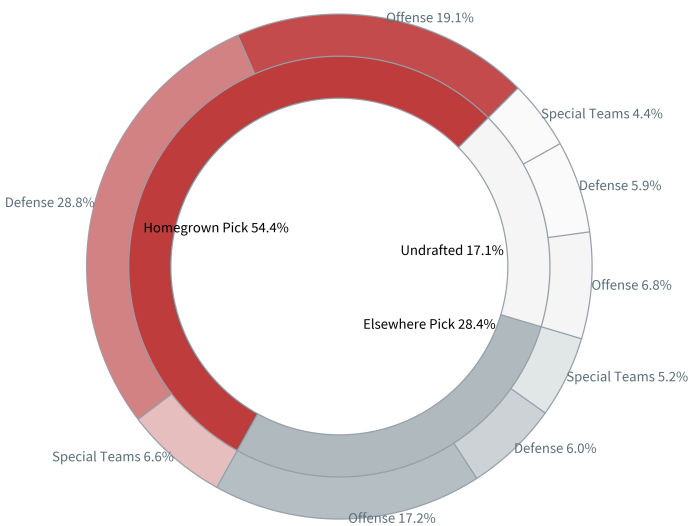
Undrafted Rank

24

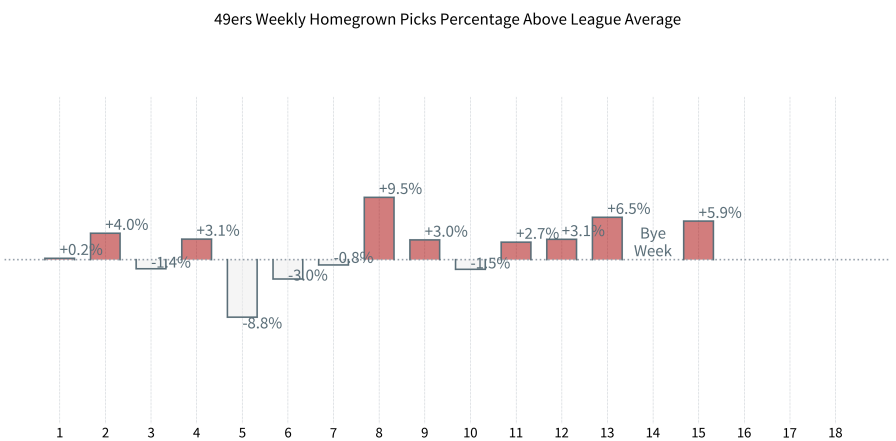


49ers Week 15 Percentage of Snaps





49ers Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

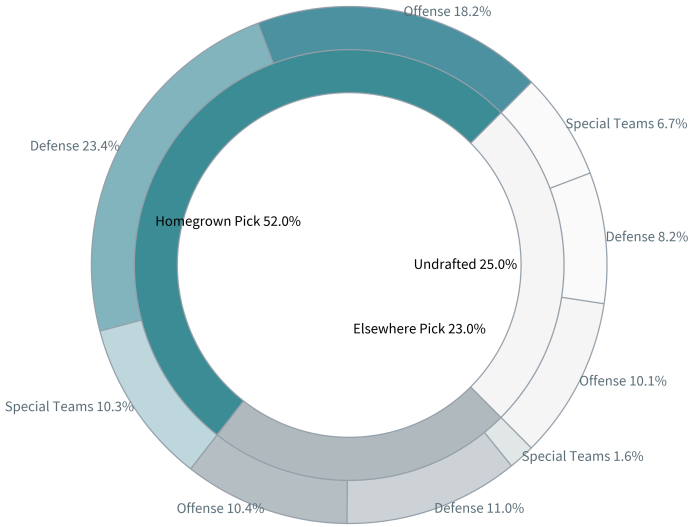
12

Elsewhere Picks Rank

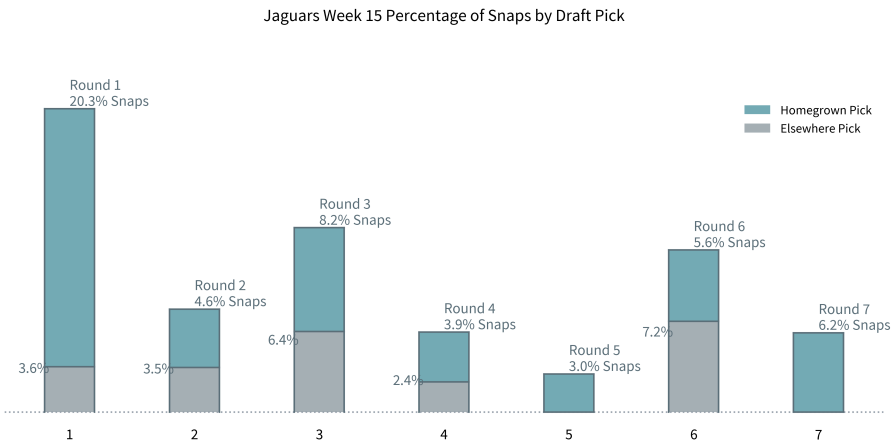
20

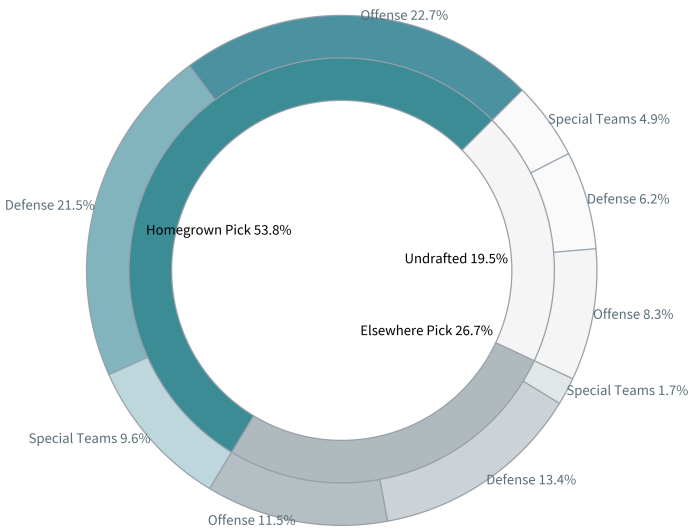
Undrafted Rank

18

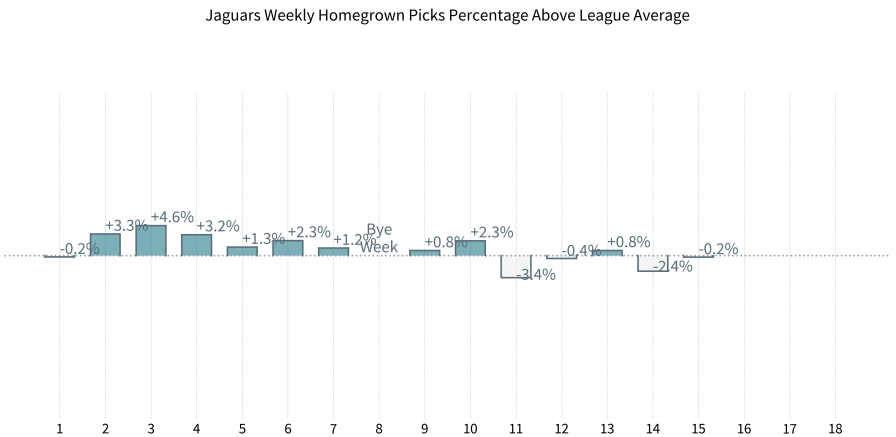


Jaguars Week 15 Percentage of Snaps





Jaguars Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

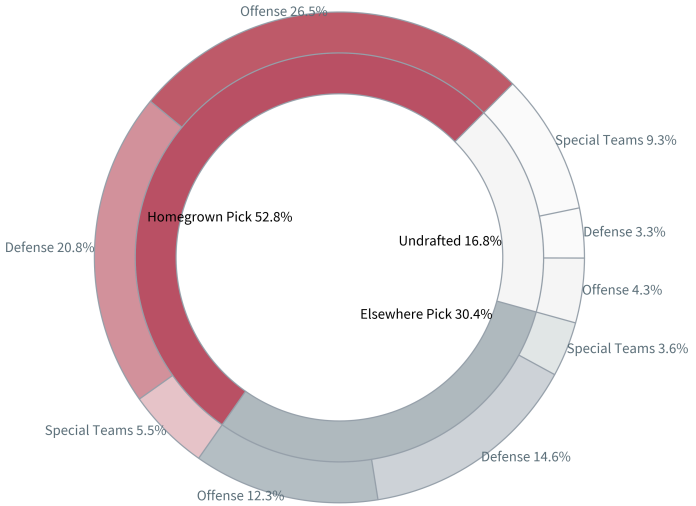
13

Elsewhere Picks Rank

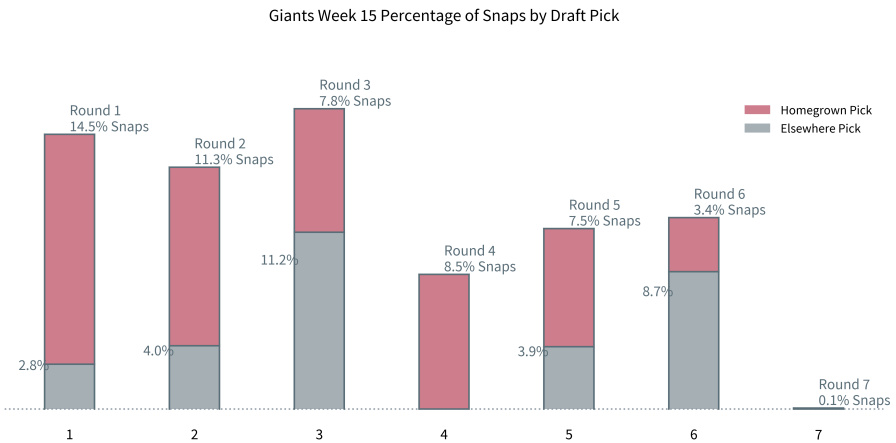
22

Undrafted Rank

10



Giants Week 15 Percentage of Snaps



Homegrown Picks Rank

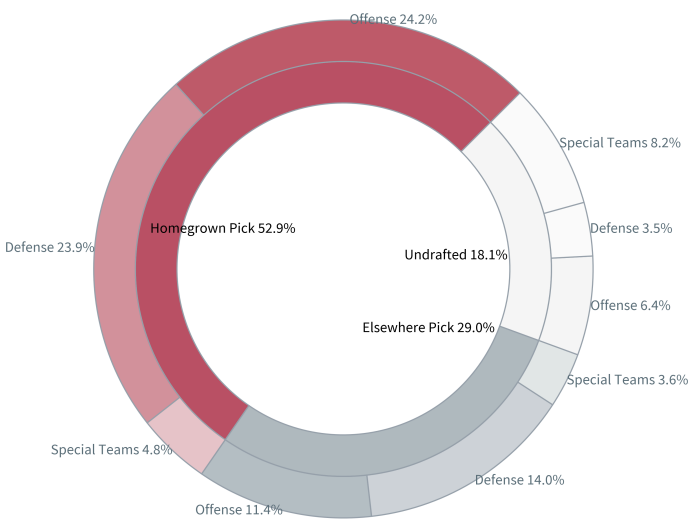
14

Elsewhere Picks Rank

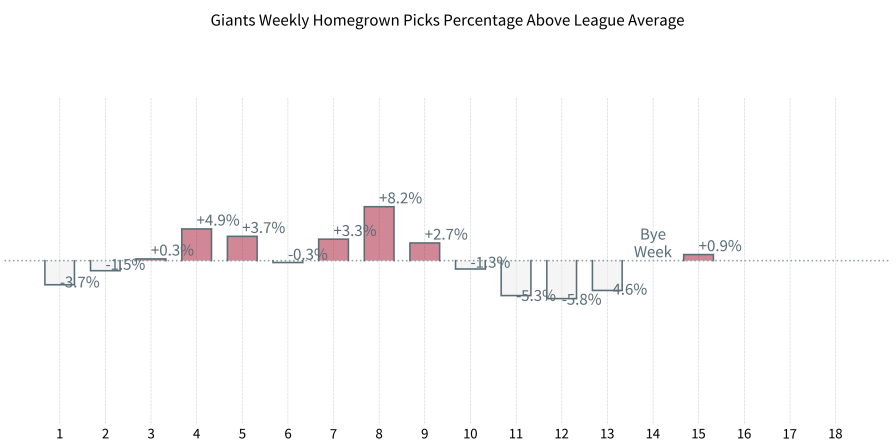
18

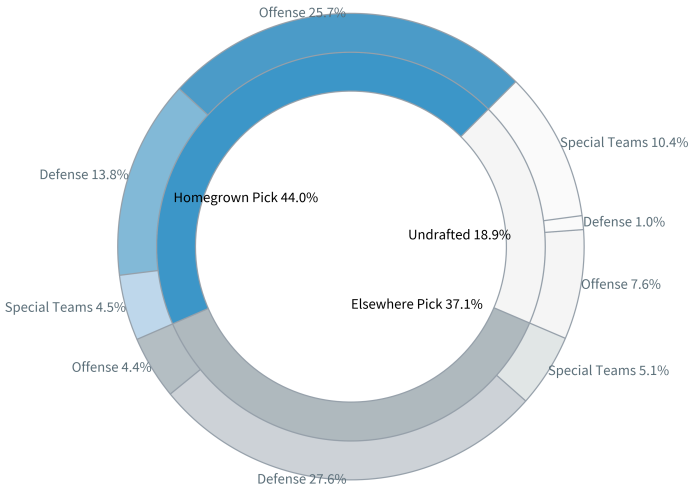
Undrafted Rank

14

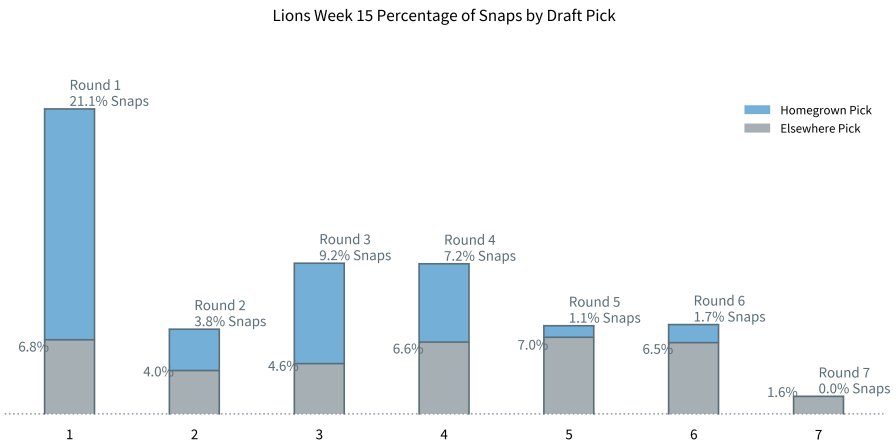


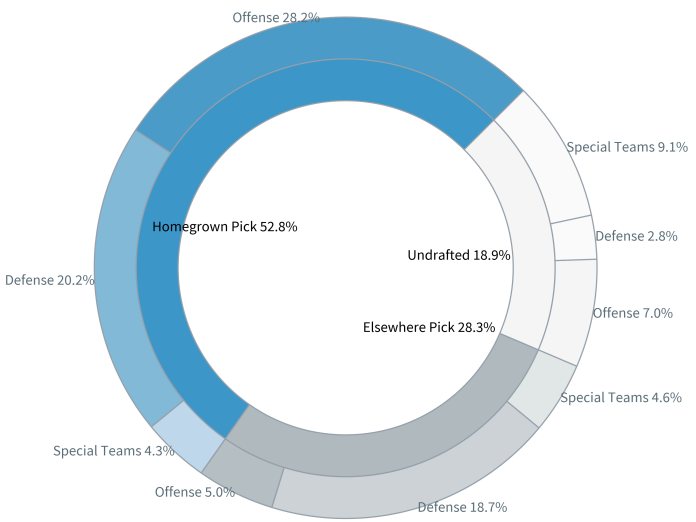
Giants Season (Through 14 Games) Percentage of Snaps



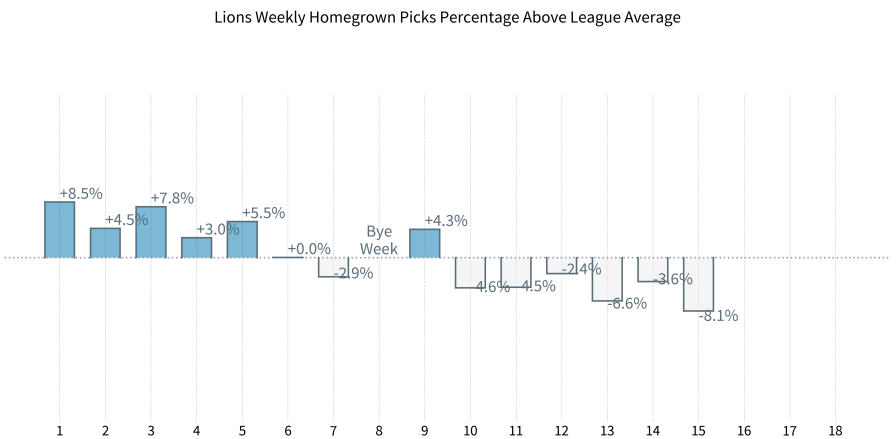


Lions Week 15 Percentage of Snaps





Lions Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

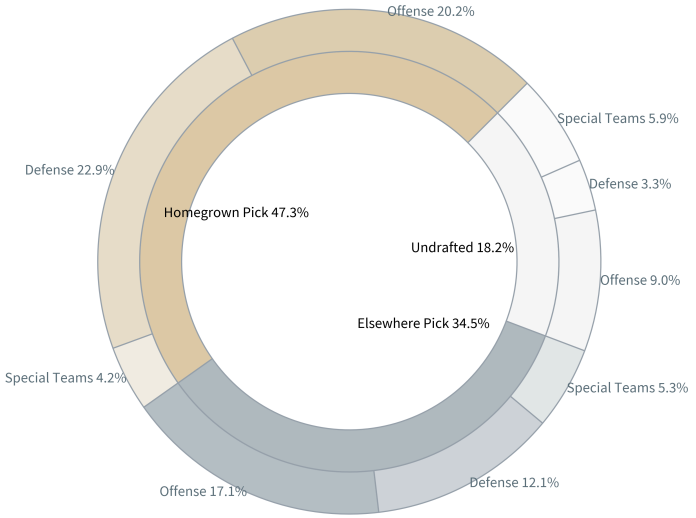
15

Elsewhere Picks Rank

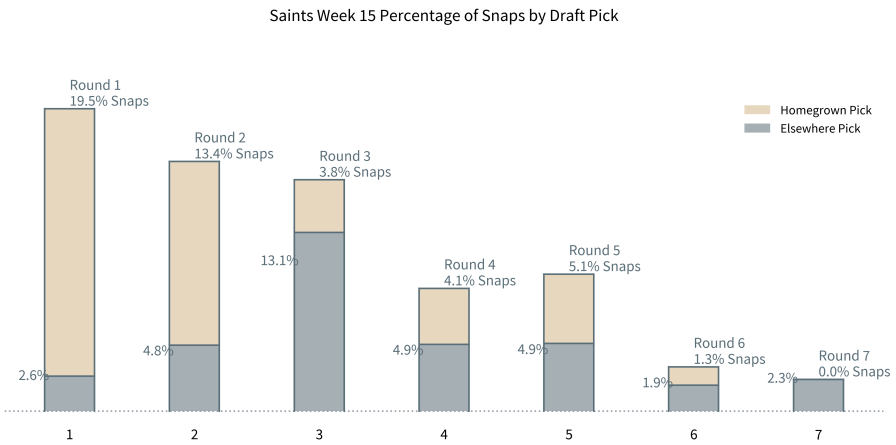
21

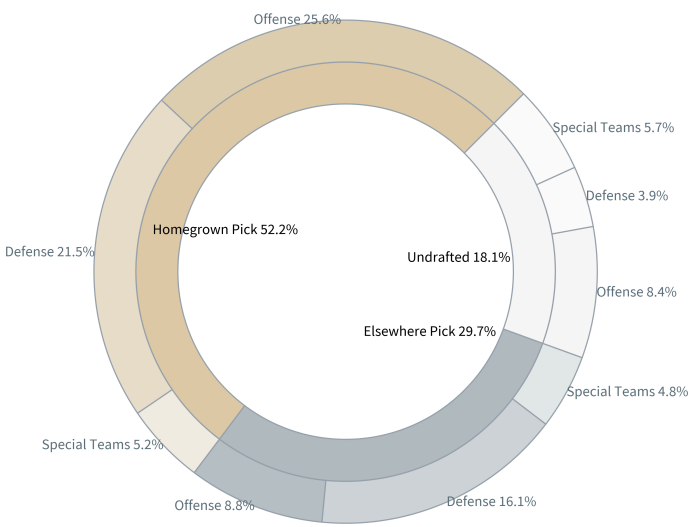
Undrafted Rank

12

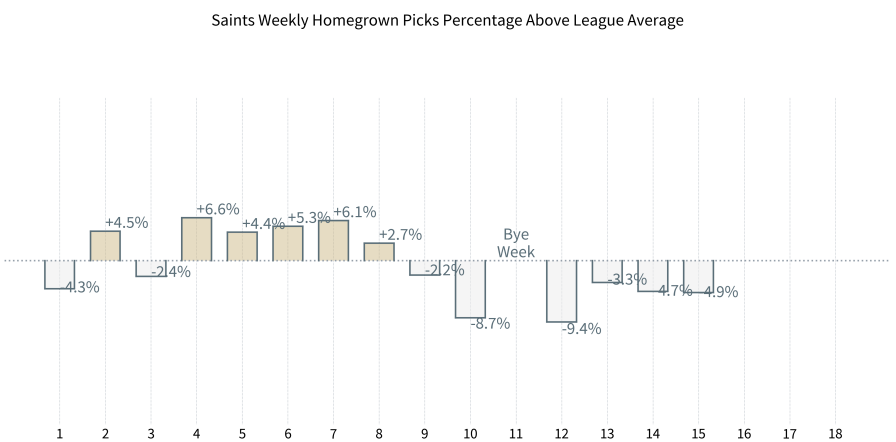


Saints Week 15 Percentage of Snaps





Saints Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

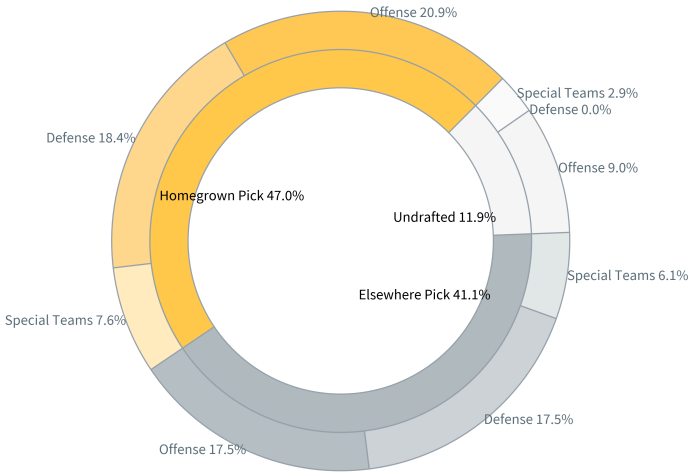
16

Elsewhere Picks Rank

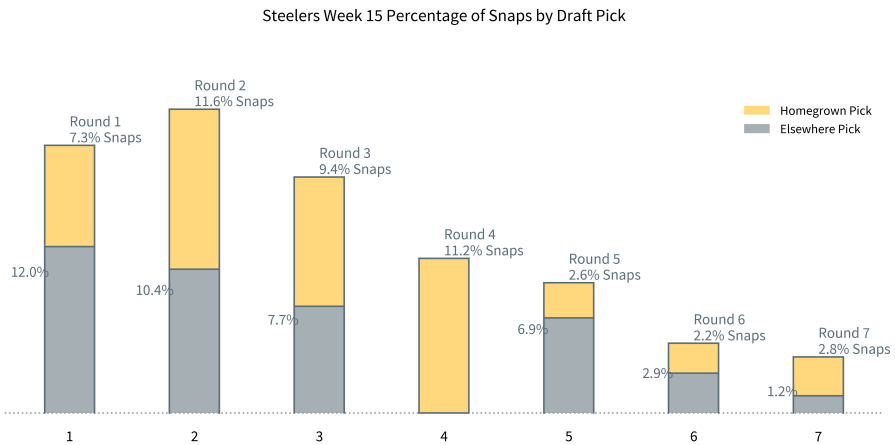
17

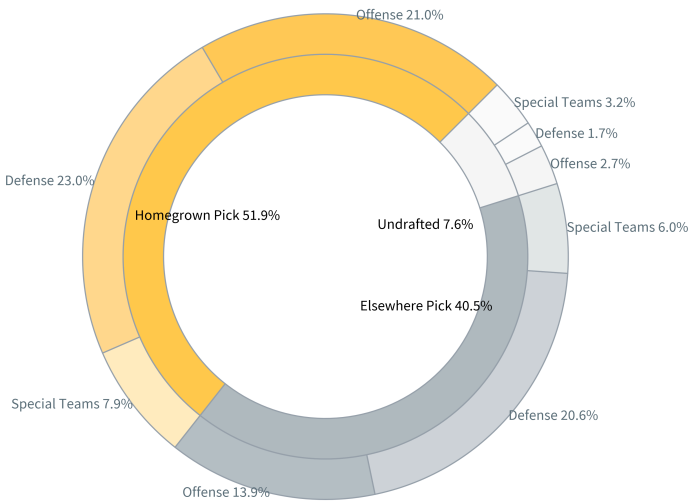
Undrafted Rank

15

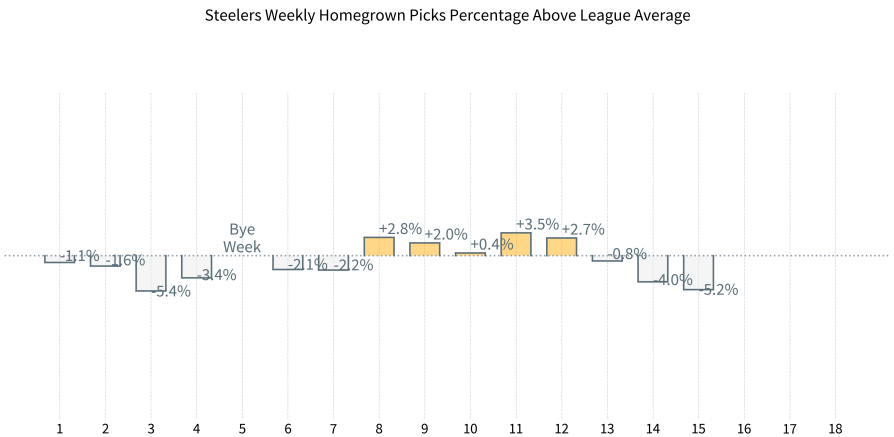


Steelers Week 15 Percentage of Snaps





Steelers Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

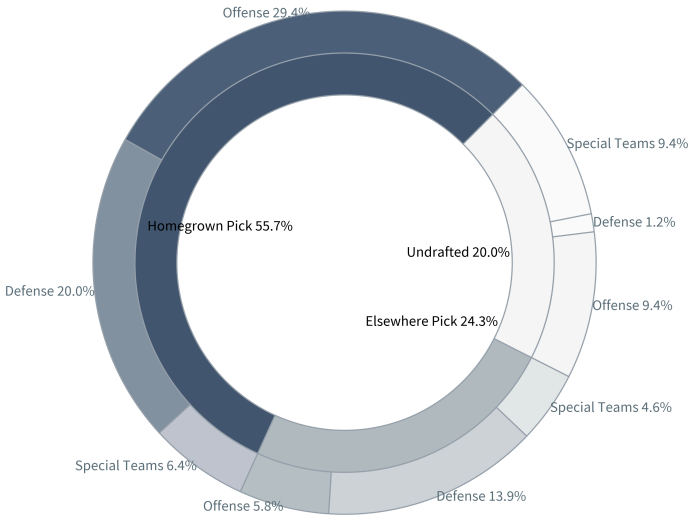
17

Elsewhere Picks Rank

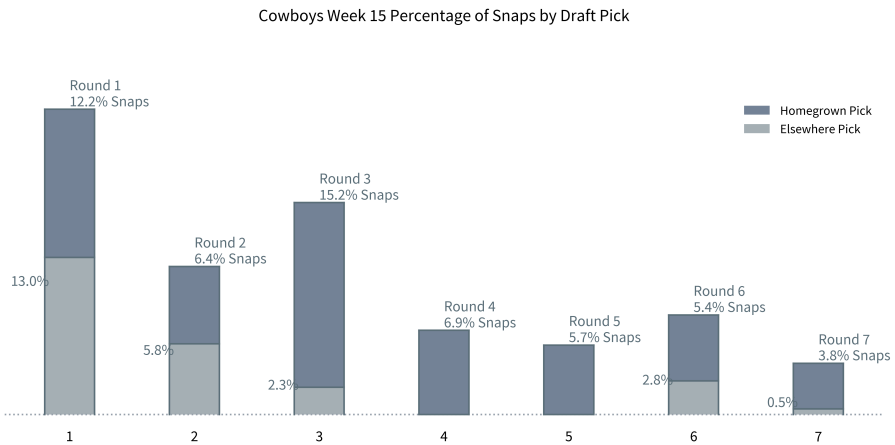
3

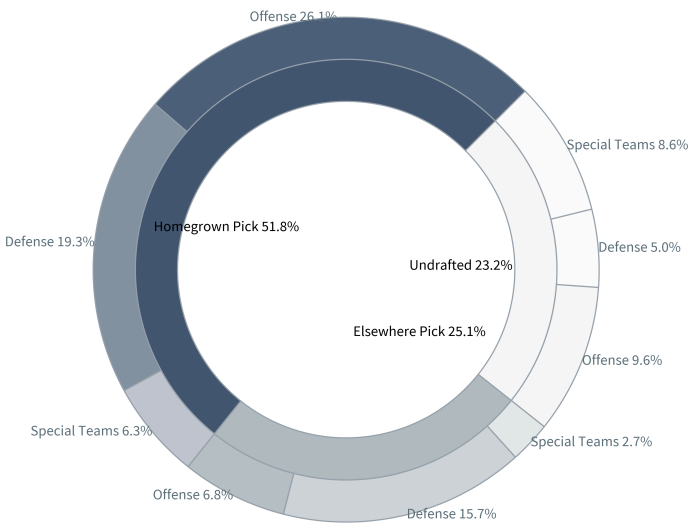
Undrafted Rank

32

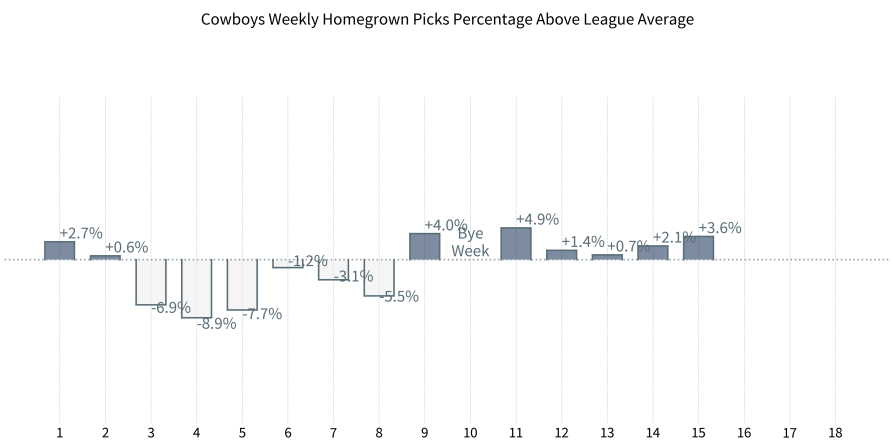


Cowboys Week 15 Percentage of Snaps





Cowboys Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

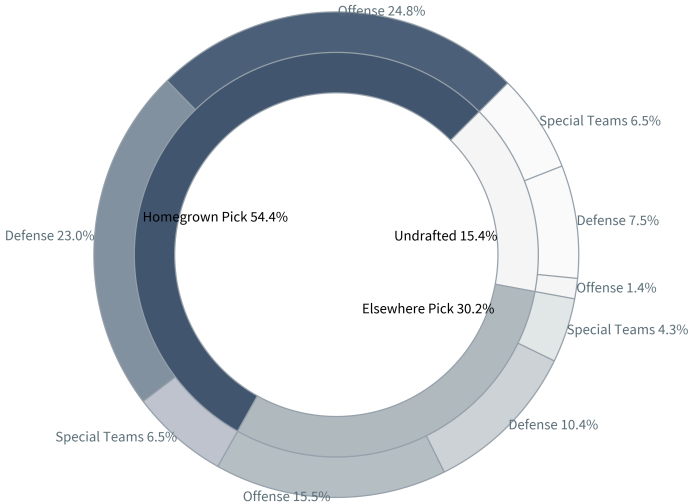
18

Elsewhere Picks Rank

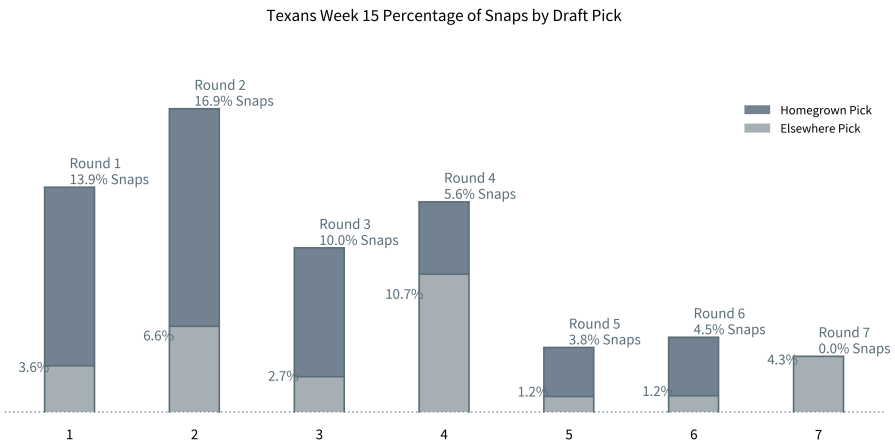
24

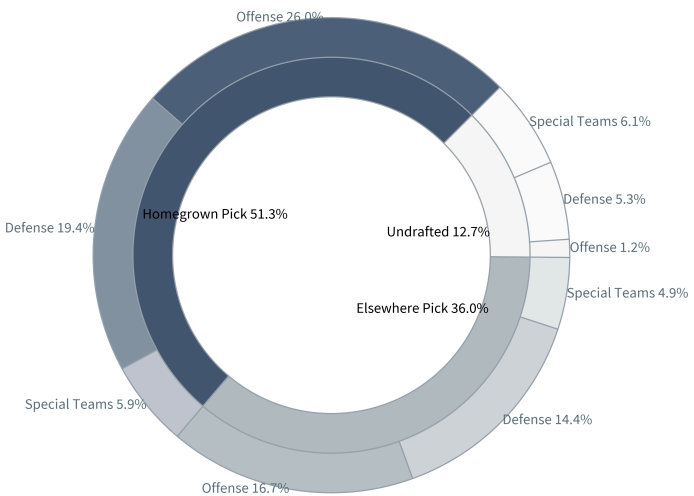
Undrafted Rank

3

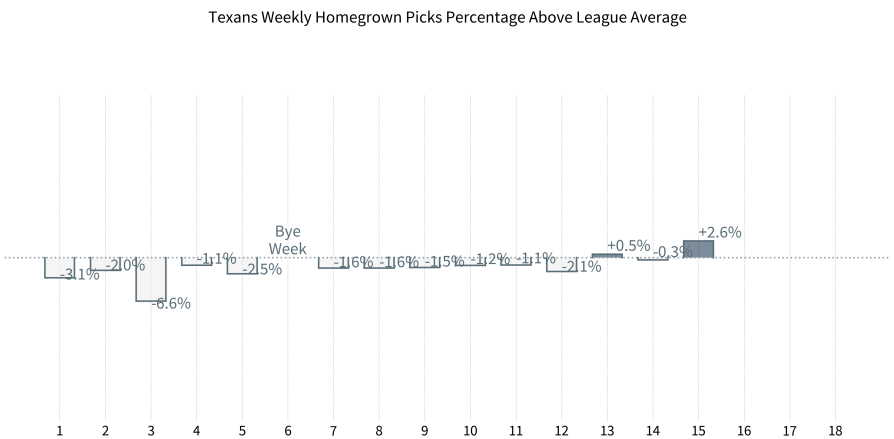


Texans Week 15 Percentage of Snaps





Texans Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

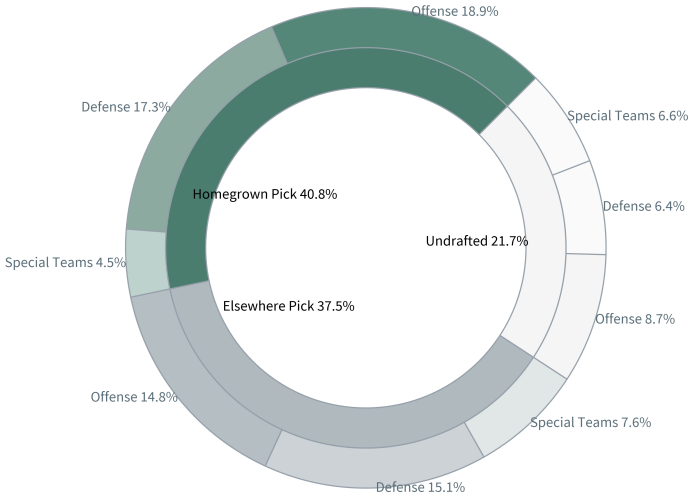
19

Elsewhere Picks Rank

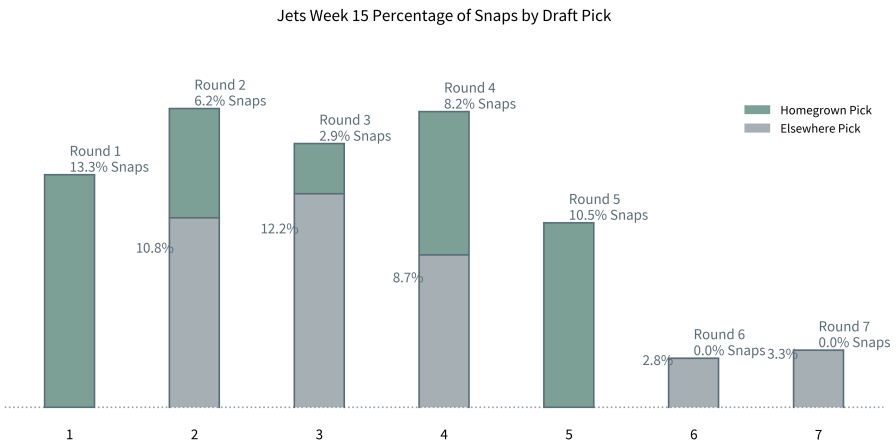
10

Undrafted Rank

23



Jets Week 15 Percentage of Snaps



Homegrown Picks Rank

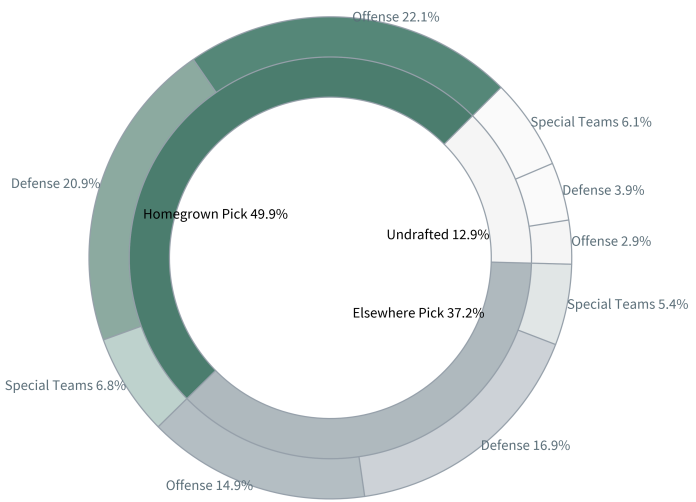
20

Elsewhere Picks Rank

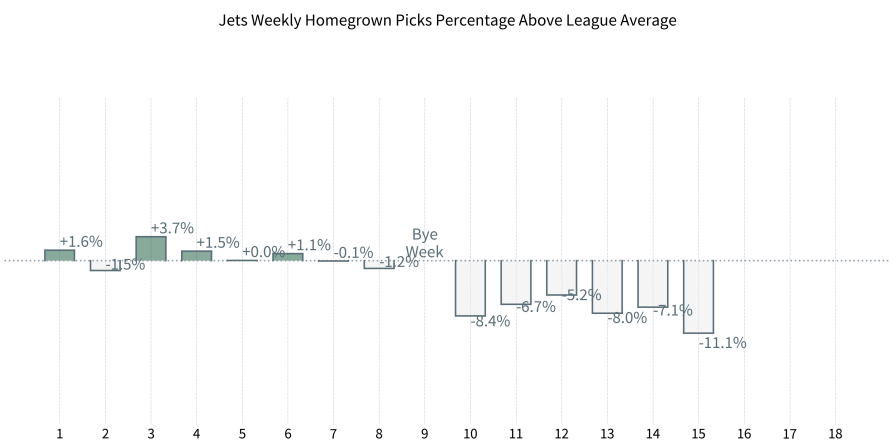
9

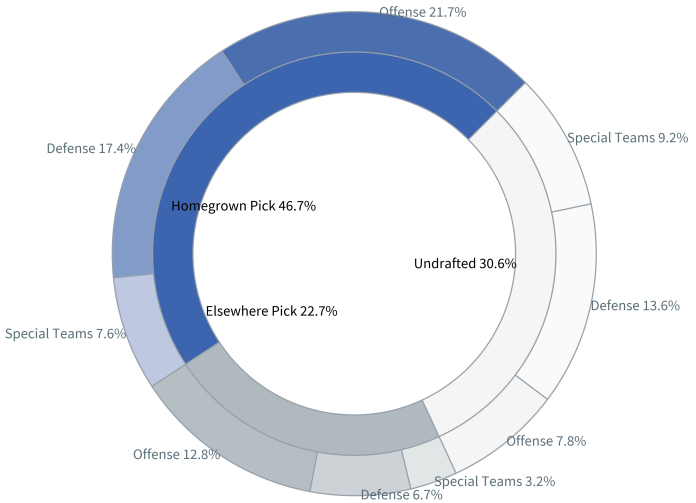
Undrafted Rank

22

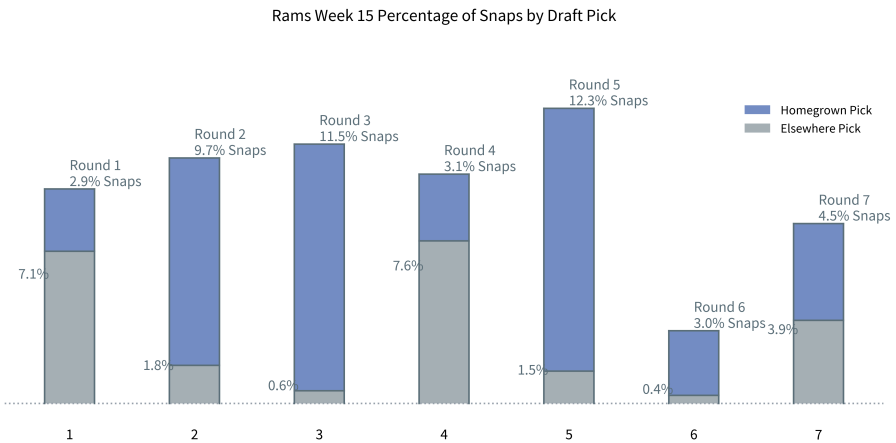


Jets Season (Through 14 Games) Percentage of Snaps





Rams Week 15 Percentage of Snaps



Homegrown Picks Rank

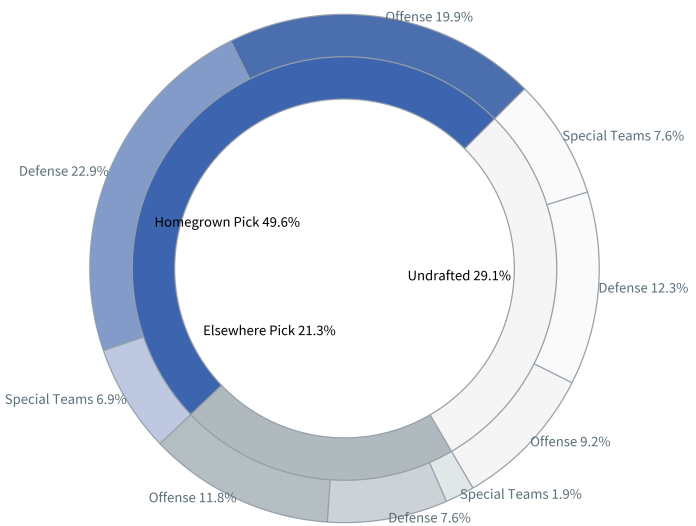
21

Elsewhere Picks Rank

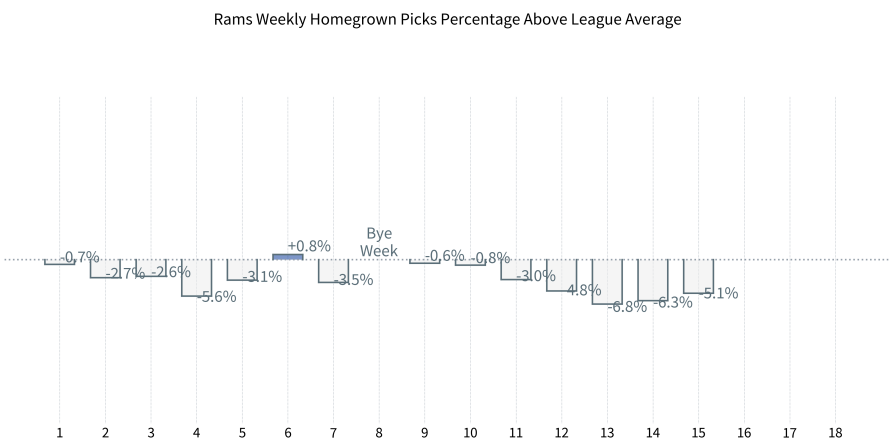
29

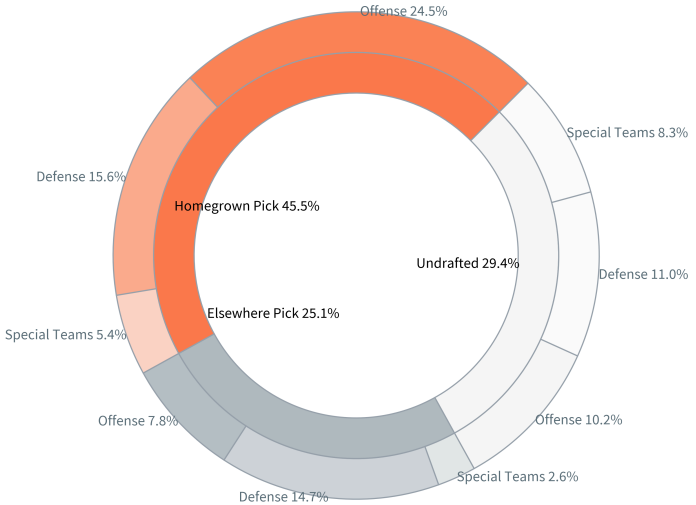
Undrafted Rank

1

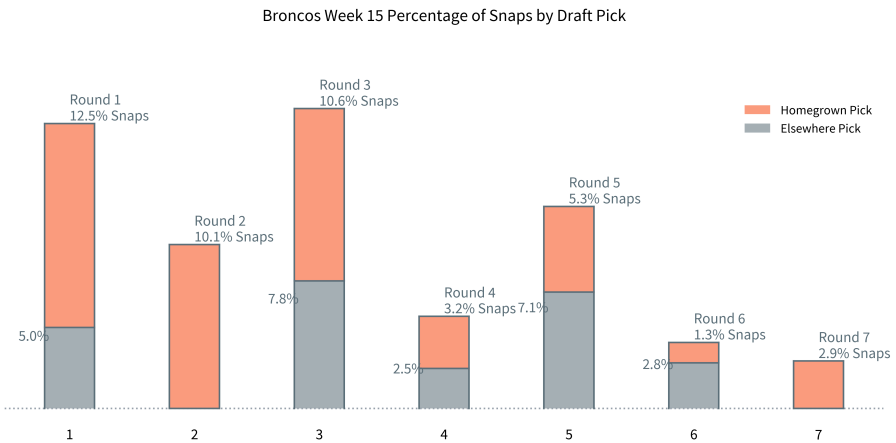


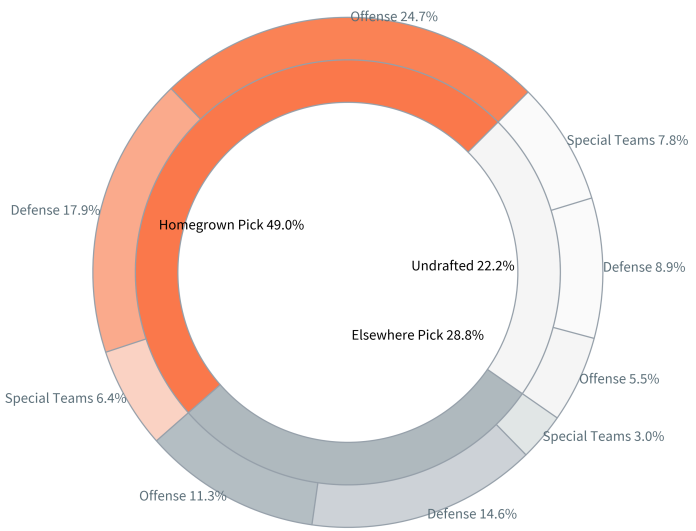
Rams Season (Through 14 Games) Percentage of Snaps



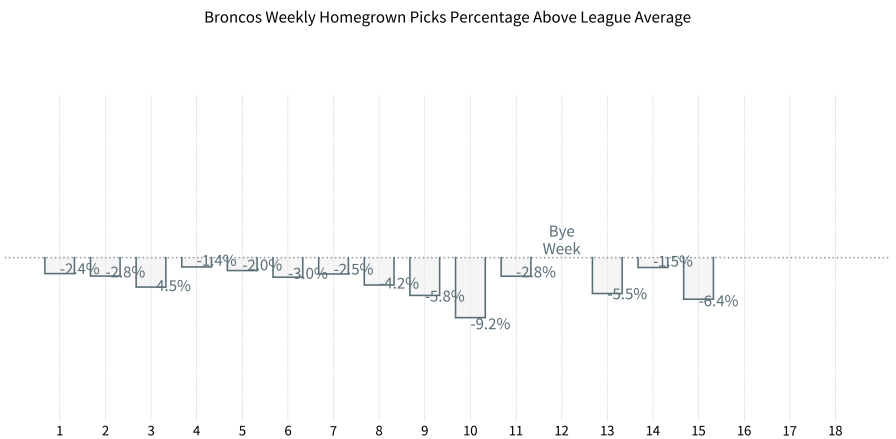


Broncos Week 15 Percentage of Snaps





Broncos Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

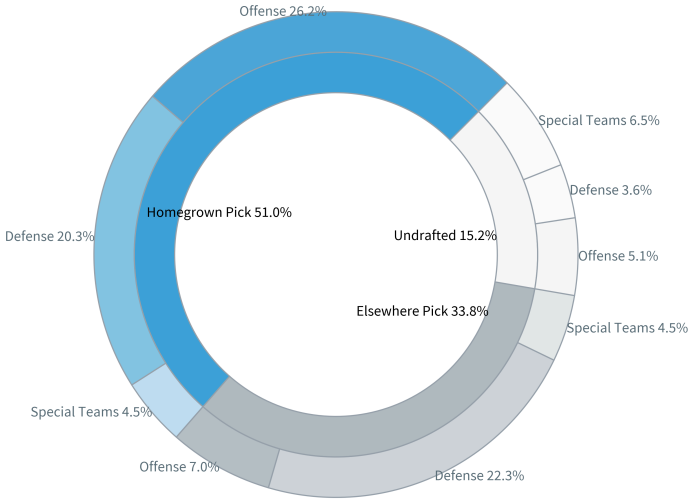
22

Elsewhere Picks Rank

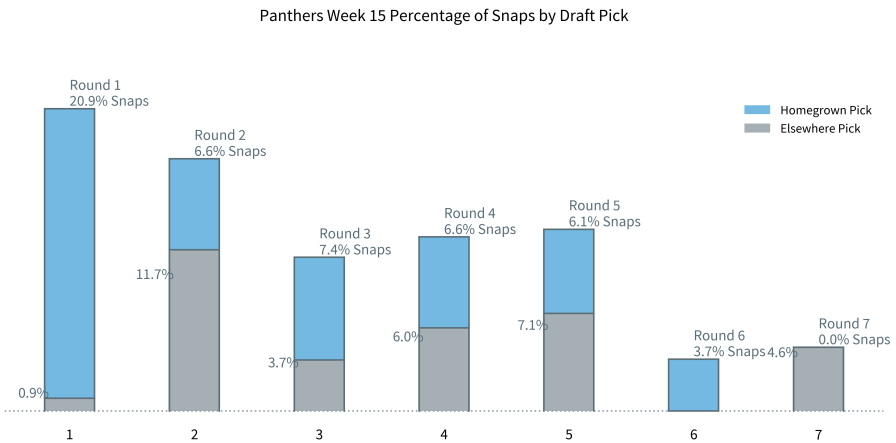
19

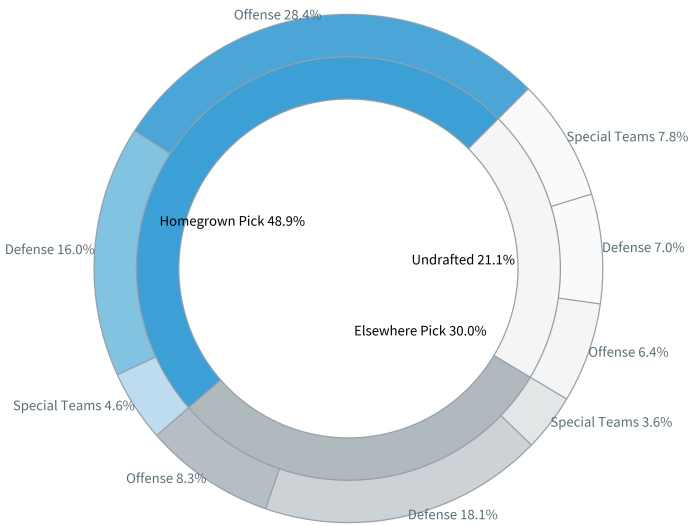
Undrafted Rank

5

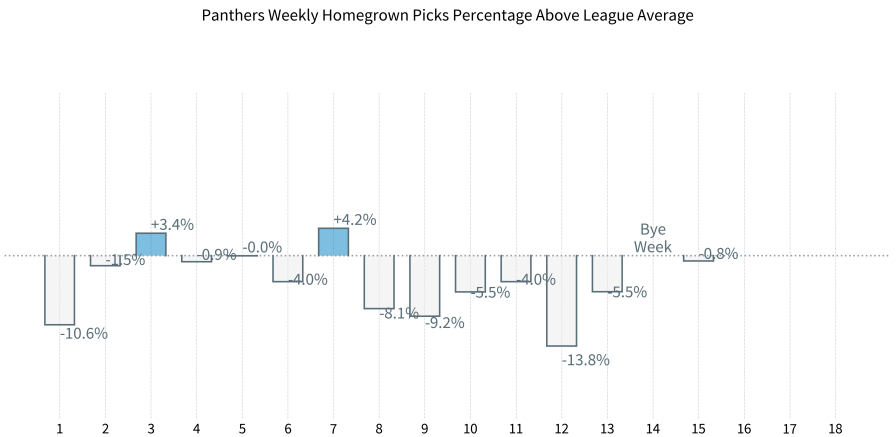


Panthers Week 15 Percentage of Snaps





Panthers Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

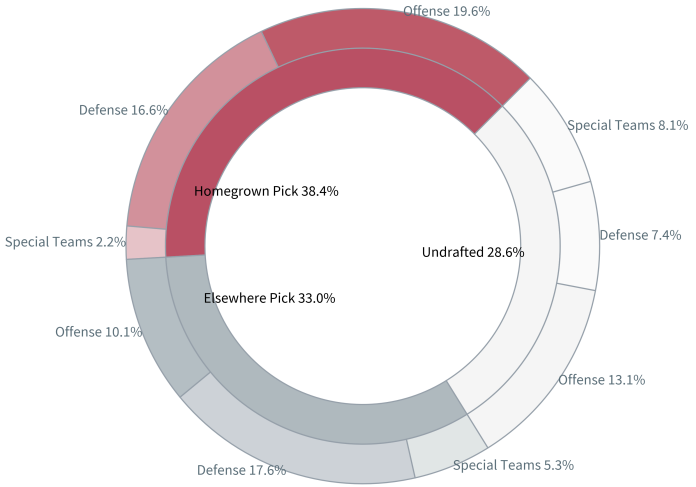
23

Elsewhere Picks Rank

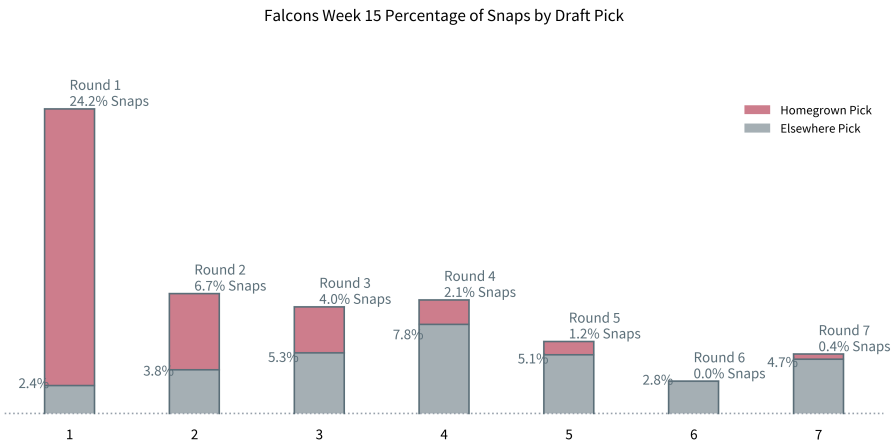
16

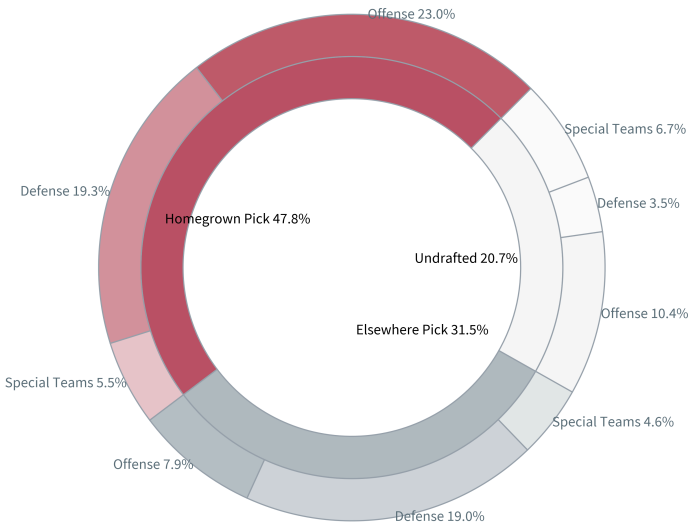
Undrafted Rank

7

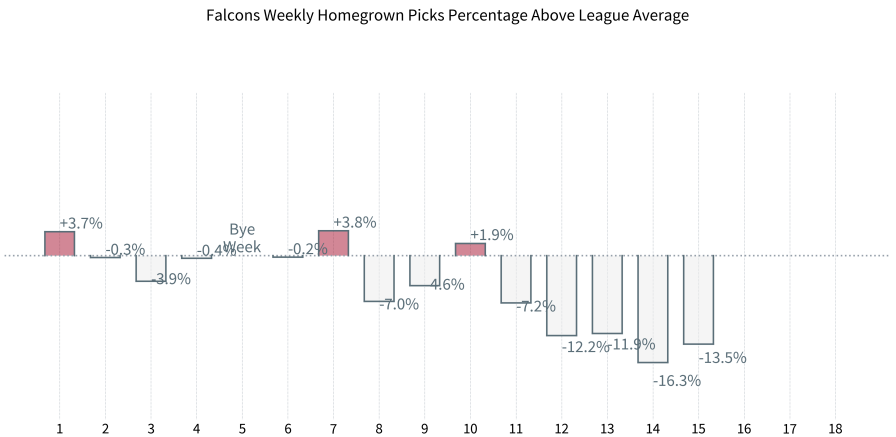


Falcons Week 15 Percentage of Snaps





Falcons Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

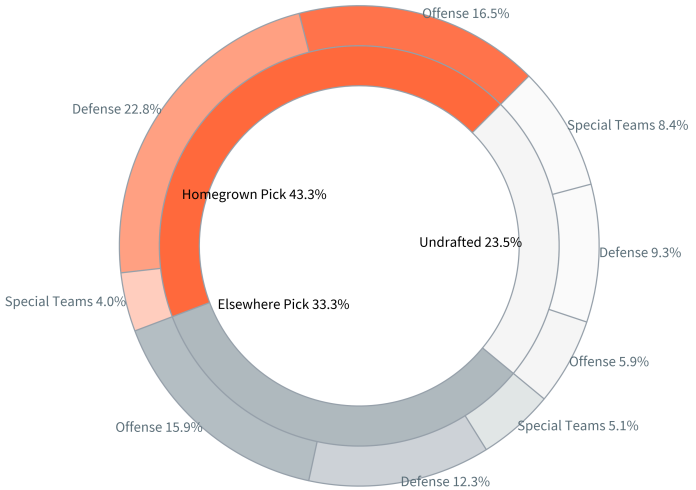
24

Elsewhere Picks Rank

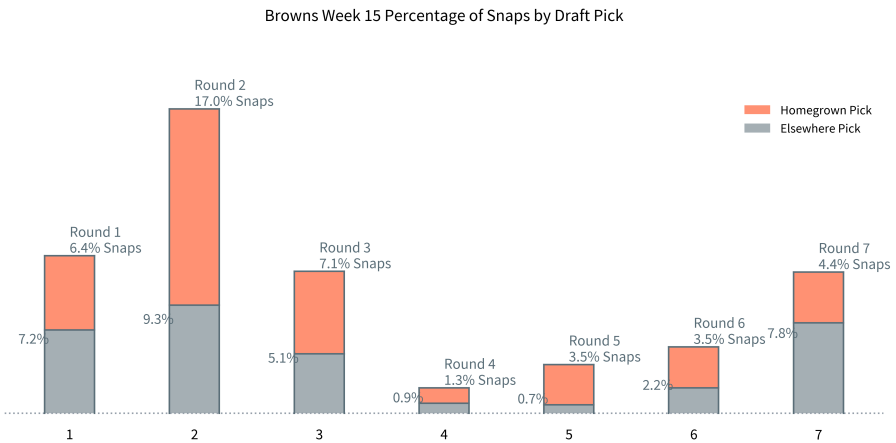
13

Undrafted Rank

8



Browns Week 15 Percentage of Snaps



Homegrown Picks Rank

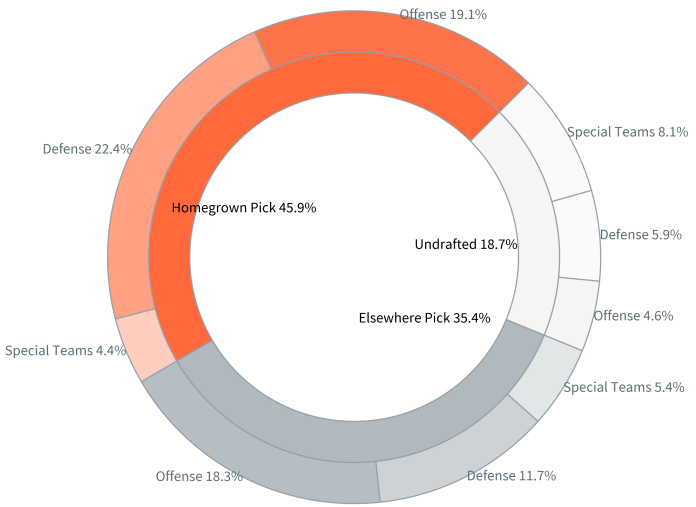
25

Elsewhere Picks Rank

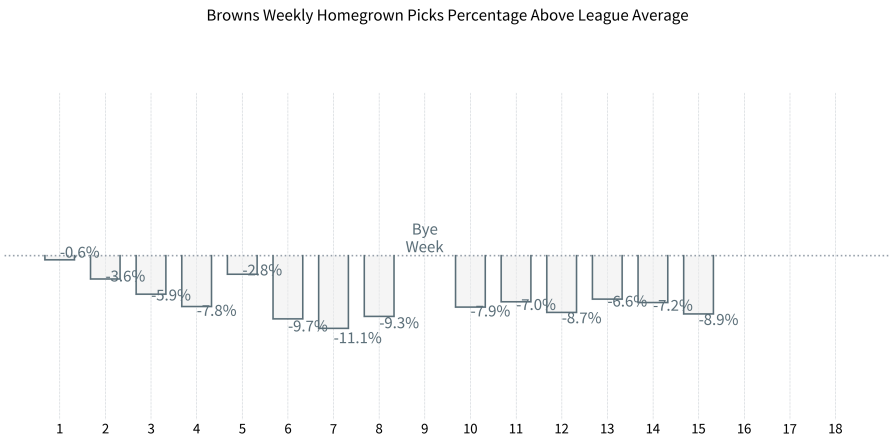
11

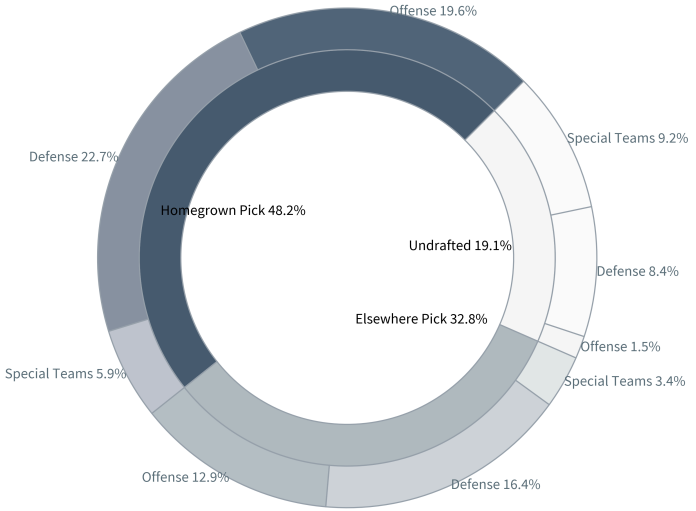
Undrafted Rank

13

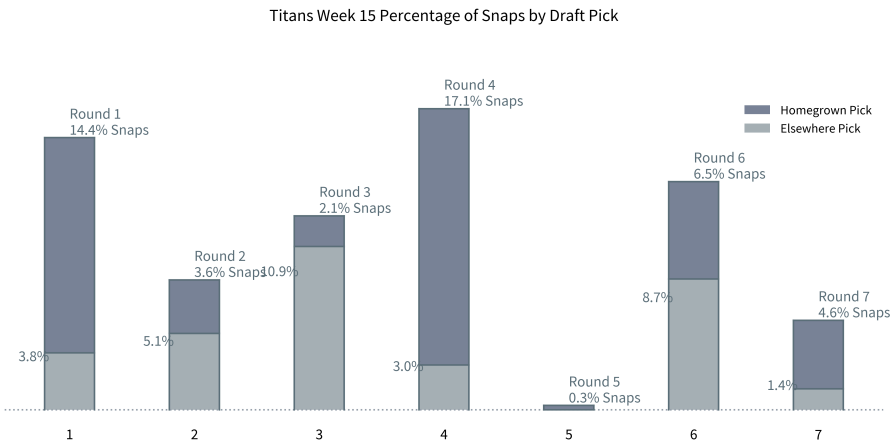


Browns Season (Through 14 Games) Percentage of Snaps





Titans Week 15 Percentage of Snaps



Homegrown Picks Rank

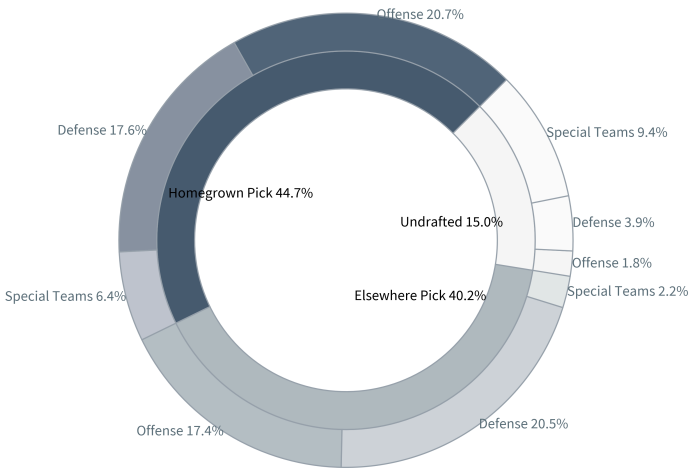
26

Elsewhere Picks Rank

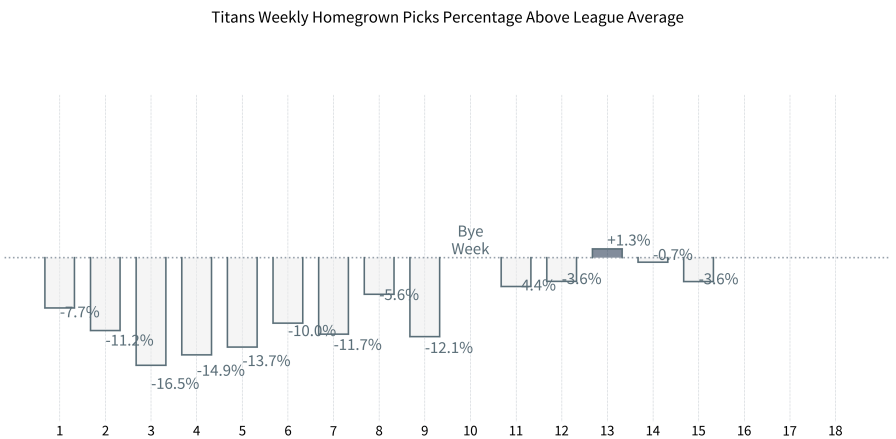
4

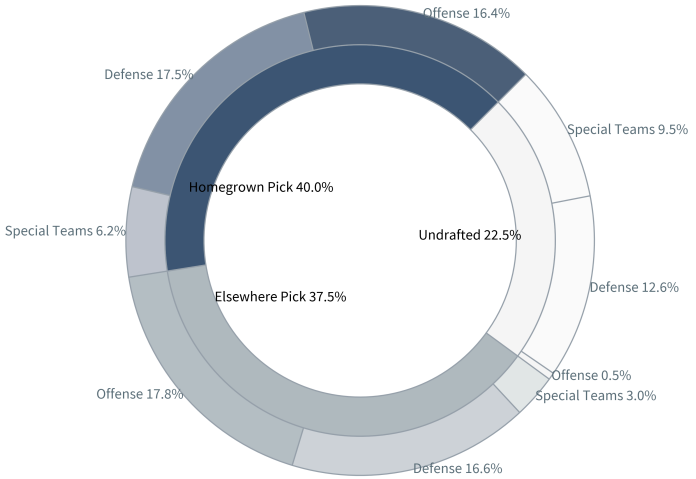
Undrafted Rank

20

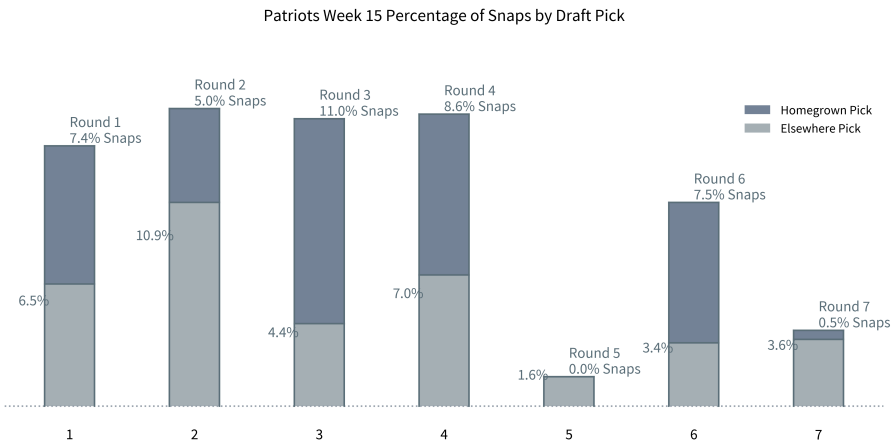


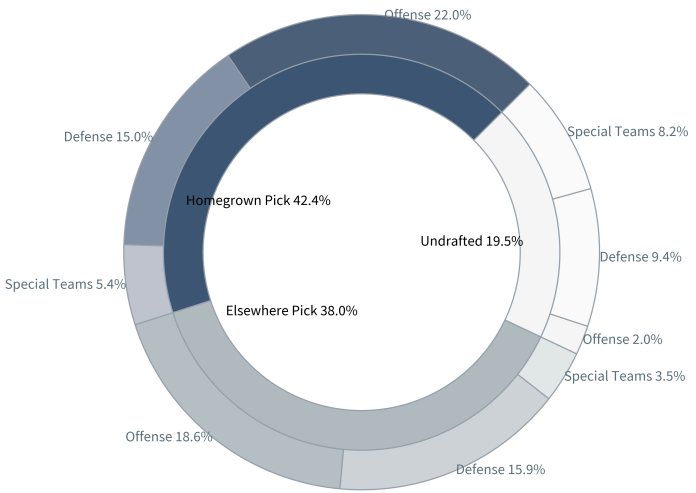
Titans Season (Through 14 Games) Percentage of Snaps



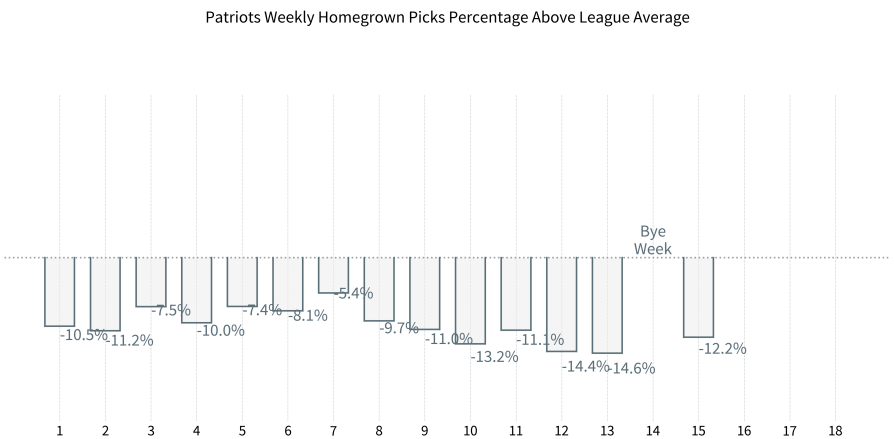


Patriots Week 15 Percentage of Snaps





Patriots Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

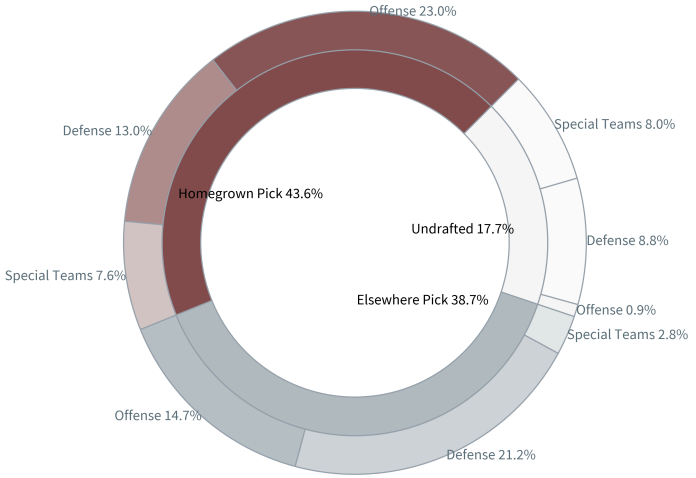
27

Elsewhere Picks Rank

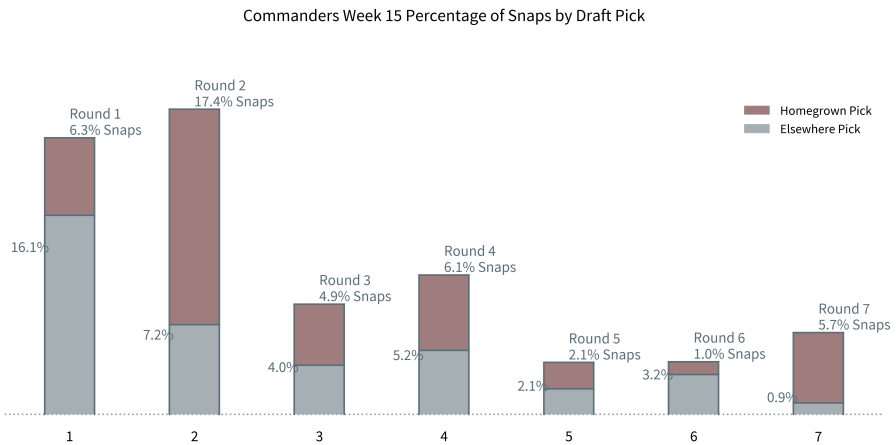
7

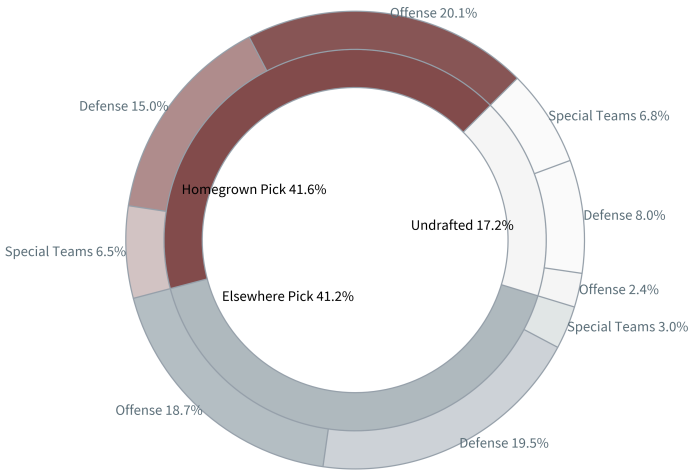
Undrafted Rank

11

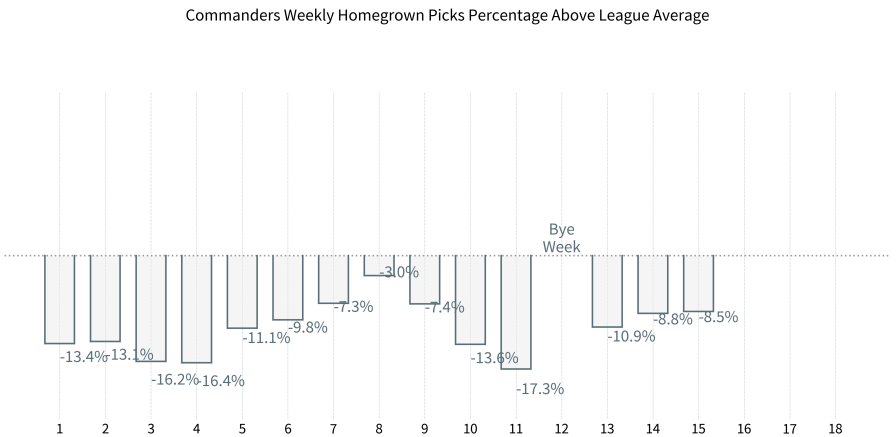


Commanders Week 15 Percentage of Snaps





Commanders Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

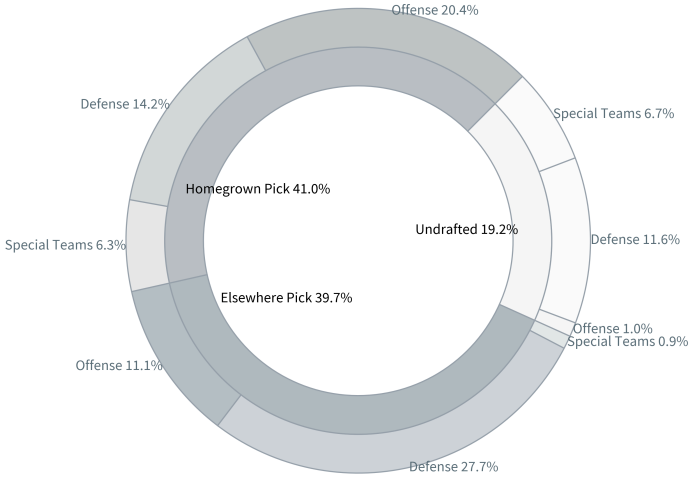
28

Elsewhere Picks Rank

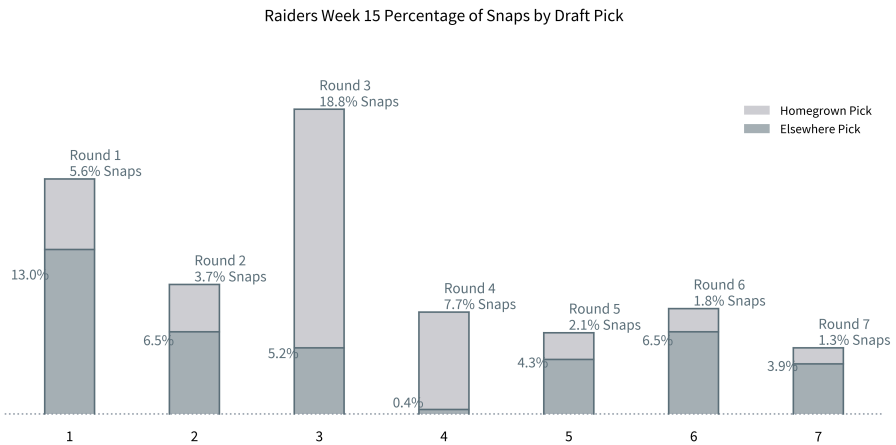
2

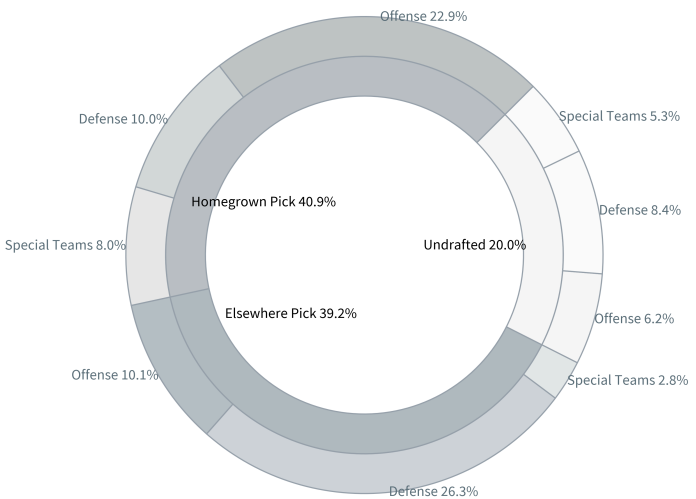
Undrafted Rank

17

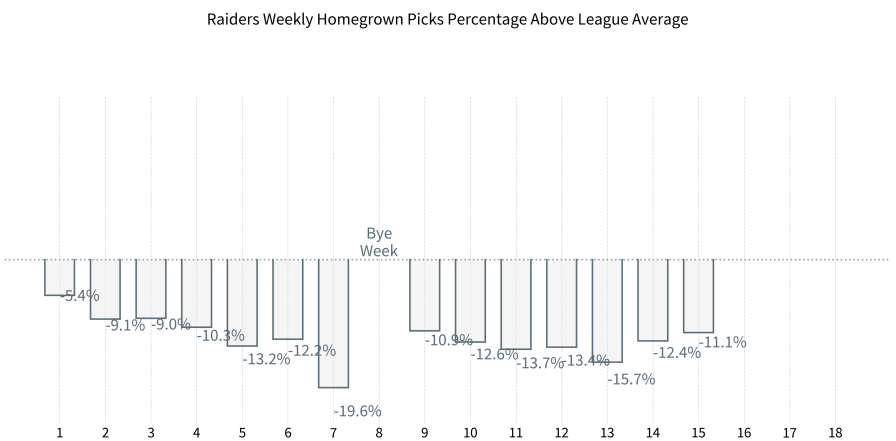


Raiders Week 15 Percentage of Snaps





Raiders Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

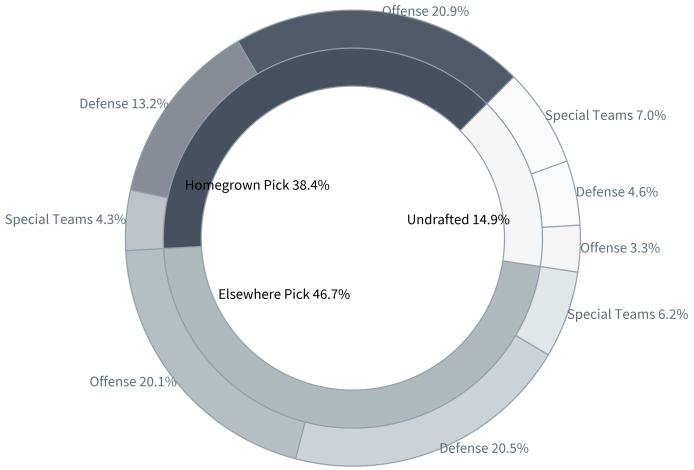
29

Elsewhere Picks Rank

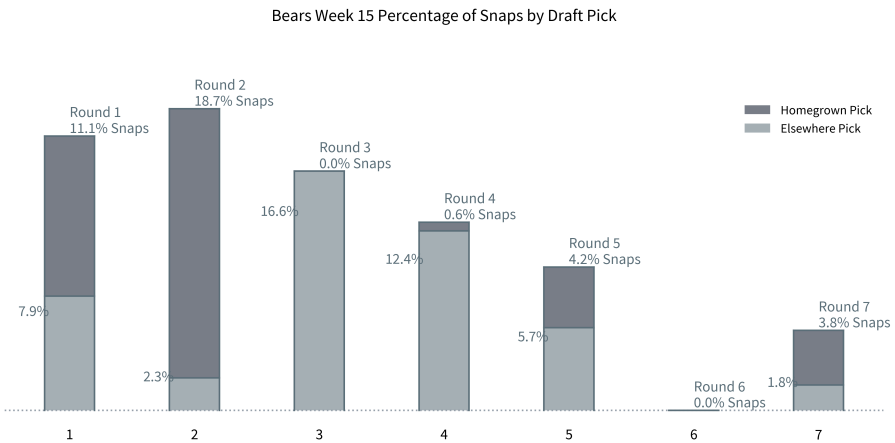
5

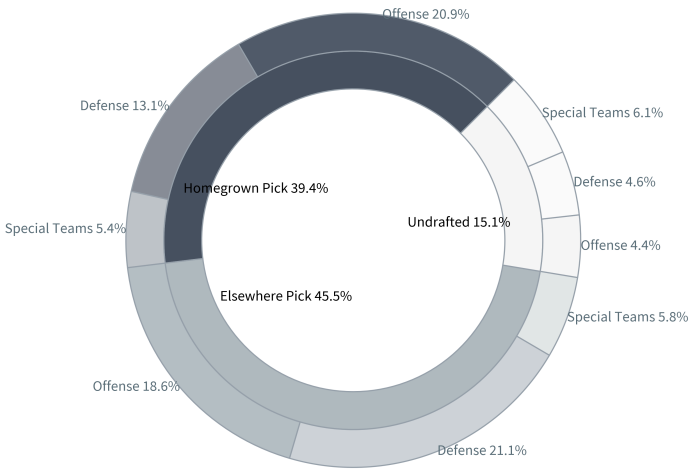
Undrafted Rank

9

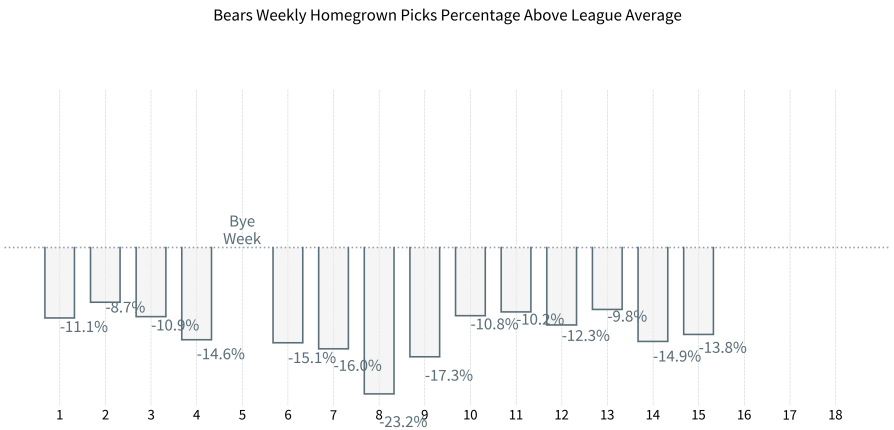


Bears Week 15 Percentage of Snaps





Bears Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

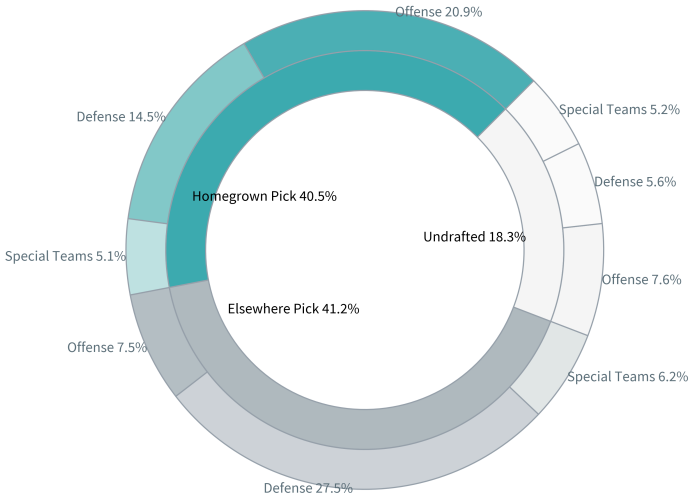
30

Elsewhere Picks Rank

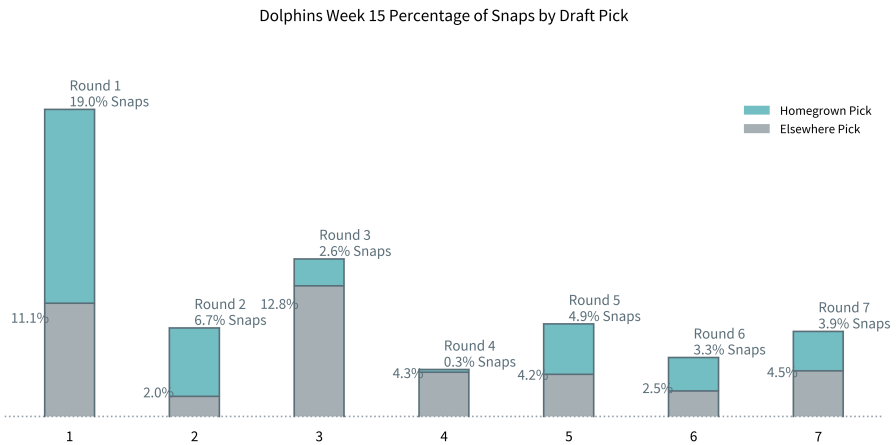
1

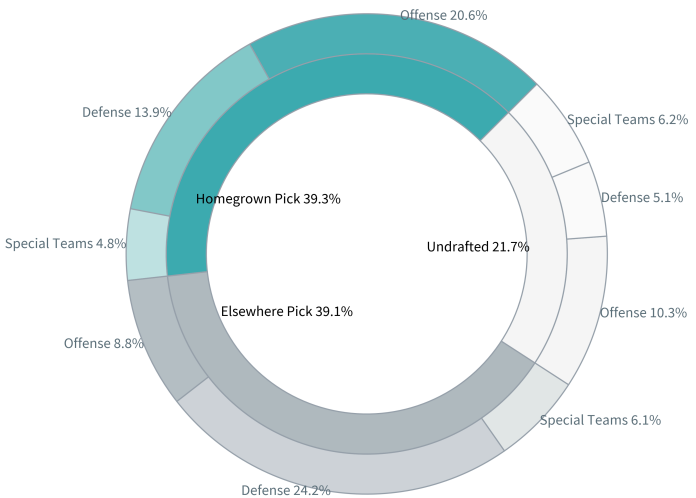
Undrafted Rank

19

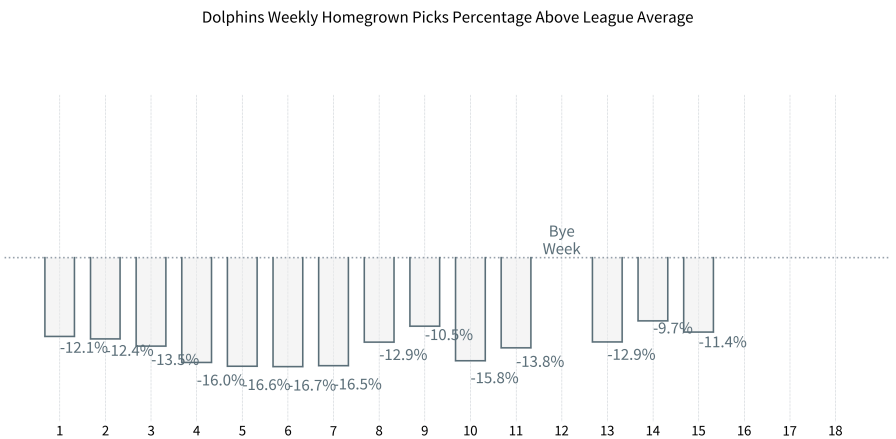


Dolphins Week 15 Percentage of Snaps





Dolphins Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

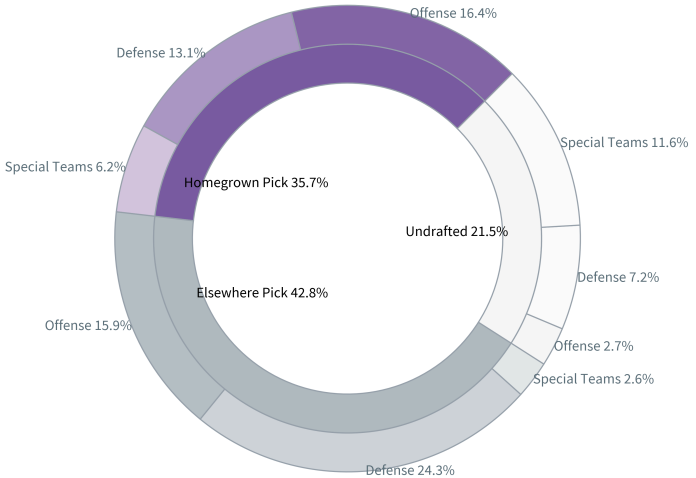
31

Elsewhere Picks Rank

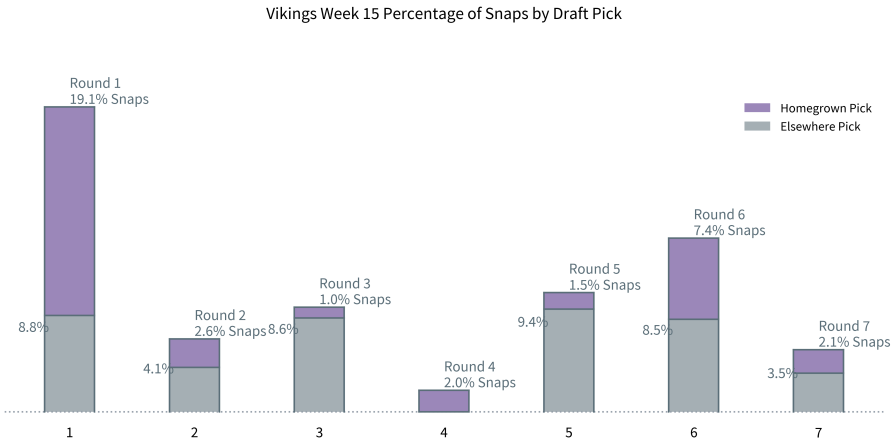
6

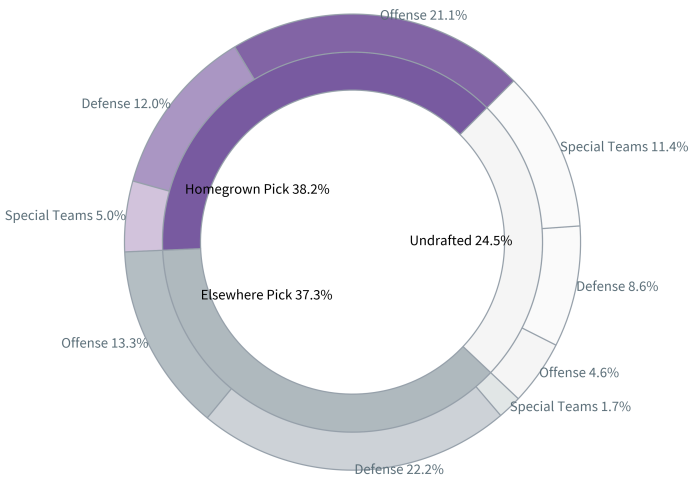
Undrafted Rank

6

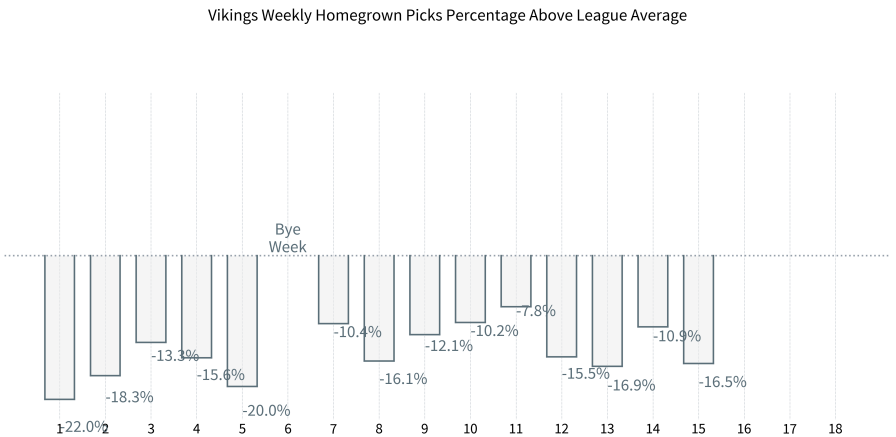


Vikings Week 15 Percentage of Snaps





Vikings Season (Through 14 Games) Percentage of Snaps



Homegrown Picks Rank

32

Elsewhere Picks Rank

8

Undrafted Rank

2

Percentage of Snaps Methodology

Percentages of snaps used throughout report. “Snaps” is semi vague. The more precise term would be “opportunities.” We can’t simply take the total game snaps from the stat sheet because there are 11 slots per snap. We have to either 1) multiply the total snaps by slots or 2) compute total snaps as the sum of all snaps taken by all players. For simplicity we just use “snaps.” And so for player origin i in $\{\text{Homegrown Picks}, \text{Elsewhere Picks}, \text{Undrafted}\}$ and some game k:

$$\text{Percentage of Snaps Player Origin}_{i,k} = \frac{\sum_{j=1}^{n} \text{Snaps Player Origin}_{i,j}}{\text{Total Snaps}}$$

Where Total Snaps is either total game snaps times 11 or the sum of all individual snaps and $\sum_{i=1}^{3} \text{Percentage of Snaps Player Origin}_i = 1$. And then we can roll this up to any multi-game dimension (team-to-date, season-to-date, etc.) with weighted average $P_{i,d}$ across some dimesion d as:

$$P_{i,d} = \sum_{k=1}^{n} P_{i,k} \cdot w_k$$

Where $P_{i,k}$ is $\text{Percentage of Snaps Player Origin}_i$ for some game k and w_k is Total Snaps_k divided by $\sum_{d=1}^{n} \text{Total Snaps}_d$.